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PERSONAL INFORMATION

Date of Birth: August 2, 1962
Nationality: U.S. Citizen

EDUCATION

PhD., January 2002

Epidemiology/Exposure Assessment, School of Public Health, University of Medicine and Dentistry of New Jersey (UMDNJ), and Rutgers, the State University of New Jersey, New Brunswick, New Jersey

M.D., July 1985

Tongji Medical University, Wuhan, China

EMPLOYMENT

Saint Louis University, College for Public Health and Social Justice, Department of Epidemiology and Biostatistics, Saint Louis, Missouri

- **Professor of Epidemiology** July 2014 – present
- **Associate Professor of Epidemiology** August 2010 – June 2014
- **Professor of Global Health** August 2014 – present

Huazhong University of Science and Technology, School of Medicine and Health Management, Wuhan, China

Guest Professor June 2012 – present

Environmental Health Institute, Geisinger Center for Health Research, Danville, Pennsylvania

Investigator II March 2008 – July 2010
Developing research projects on community health, children’s health, global health, environmental health, reproductive epidemiology, clinical epidemiology, chronic disease epidemiology, and pharmacogenetics

The Pennsylvania State University College of Medicine, Department of Public Health Sciences, Division of Epidemiology, Hershey, Pennsylvania

Assistant Professor of Epidemiology January 2002 – February 2008

Developing research projects on community health, global health, children’s health, environmental health, disaster and bioterrorism preparedness, and epidemiology and teaching graduate and medical students

Assistant Professor of Public Health (Fixed Term II) March 2008 – July 2010
Associate Professor of Public Health (Fixed Term II) August 2010 – June 2015

Professor of Public Health (Fixed Term II)

June 2015 – present

Environmental and Occupational Health Sciences Institute (EOHSI), Exposure Science Division, Piscataway, New Jersey

- **Research Assistant (Ph.D. study)** September 1997 – September 2001
Worked on the project "Study for Effects of Long-term Air Pollution on Lung Function and Respiratory Health in Children and Adults," sponsored by the EPA and the Chinese government: conducted analytic design, database establishment, database management, data processing and analysis, and data reporting on 7,540 cross-sectional (with 1,258,000 observations) and 12,000 longitudinal standard questionnaires pertaining to children's lung function; evaluated the effect of particles on respiratory conditions in children and adults and on the growth of lung function; examined the exposure – effects relationship between residential exposures to cigarette smoking and combustion fuels on the respiratory conditions and the lung function.
- **Research Assistant** September 1997 – August 1998
Processed and analyzed data using SAS for the studies: "Lead, Solvents and Neurobehavior in Construction Workers," and "Functional Status and Mood in Persian Gulf Registry Veterans with Chronic Fatigue Syndrome." Tasks included systematic evaluation of disease targets and relevant populations in conjunction with psychologists, statisticians, and exposure experts; data clean-up, data management, multivariate analysis of variance, development of multiple linear regression and unconditional logistic regression models, and factor analysis of covariates.
- **Visiting Scholar** September 1996 – September 1997
Worked for the project, "Study for Effects of Long-term Air Pollution on Lung Function and Respiratory Health in Children and Adults." Processed, analyzed, and reported epidemiological and environmental exposure data from the pilot and full-scale studies; reported on children's and adults' respiratory health effects of indoor and outdoor air pollution in conjunction with physicians, statisticians, and environmental scientists.

Wuhan Academy of Environmental Sciences/ Wuhan Environmental Monitoring Center, Environmental and Occupational Medicine Division, Wuhan, China

- **Deputy Director** October 1991 – August 1996
- **Epidemiologist** October 1991 – August 1996
- **Medical Engineer** September 1985 – September 1991

Supervised and conducted research as Principal Investigator on study design, data collection, database establishment, database management, data processing and analysis, and data reporting on projects: "Health Effects of Atmospheric Pollution on Urban Residents" (Sponsored by the Chinese State Environmental Protection Administration), "Study for Effects of Long-term Air Pollution on Lung Function and Respiratory Health in Children and Adults" (Sponsored by the U.S. Environmental Protection Agency), and "Investigation on the Health Effects of Environmental Pollution on Residents in Yijiadun Industrial Area of Wuhan" (Sponsored by the Wuhan Environmental Protection Agency).

Worked as Co-Investigator on the projects: "Cadmium Bioaccumulation, Oral Exposure, and Kidney Impairment," "Dynamics, Exposure and Hazard Assessment of Chloroform in Drinking Water" and "Study on the Sources and Contribution of Atmospheric Particles in Wuhan".

Worked as Consultant on the projects, “Impact of a Shengnong Automobile Assembly Plant on the Environment” and “Impact of a Changjang Papermaking Mill on the Environment”.

ADMINISTRATION

Saint Louis University, College for Public Health and Social Justice, Department of Epidemiology and Biostatistics, Saint Louis, Missouri

- **Chair, Department of Epidemiology and Biostatistics** July 2017 – June 2022
- **Founding Chair, Department of Epidemiology** July 2011 – July 2017
- **Co-Director, Institute for Global Health and Wellbeing** July 2017 – present
- **Director, Center of Excellence in Maternal and Child Health Education, Research, and Practice** Feb. 2022 – present
- **Director, Maternal and Child Health Program** March 2022 - present

Environmental Health Institute, Geisinger Center for Health Research, Danville, Pennsylvania

Co-Director

March 2008 – July 2010

Wuhan Academy of Environmental Sciences/ Wuhan Environmental Monitoring Center, Environmental and Occupational Medicine Division, Wuhan, China

Deputy Director

Oct. 1990 – Aug. 1996

Major Achievements of Administrative Roles

- Developed and led the School of Public Health and Department Strategic Plan in conjunction with faculty, staff, students, industry, alumni, and university administration, resulting in the merger of the School of Public Health and the School of Social Work and the establishment of current College for Public Health and Social Justice in 2013
- Conducted self-studies of the department’s five academic concentrations: Maternal and Child Health, Epidemiology, Biostatistics, Biosecurity and Disaster Preparedness, and Biostatistics and Health Analytics, resulting in the success in the College CEPH accreditation in 2016 and the smooth execution of the CEPH mock visit and review in April 2022
- Led the Global Health Strategy Committee to establish the College’s Global Health Institute according to the new College vision, resulting in enhanced comprehensive international collaborative activities in Asia, Africa, and South America, including more than 150 peer-reviewed publications, multiple grant applications, and student and scholar exchanges
- After 10 years serving as Department Chair, I earned a 96% satisfaction grade according to responses on 24 survey questions from the college anonymous Qualtrics survey in 2021. My score was 100% on the following 7 parts: 1) Treats others with fairness and respect; 2) Is collegial; 3) Is available for consultation or discussion; 4) Values diverse perspectives; 5) Encourages an environment conducive to free exchange of ideas; 6) Provides the assistance I need to do my job; and 7) Accepts responsibility for his/her decisions
- Established and currently maintain a partnership with the HBCU Health Alliance Team (Morgan State University, Chicago State University, Bethune Cookman University, Howard University, Jackson State University, St. Augustine’s University, Tennessee State University, and Tuskegee University) on the MCH certificate, the MCH student interest group (SIG) journal club, student-mentor pairings for research/field opportunities, etc.

- Created a comprehensive recruitment plan for a diverse and more inclusive student body, resulting in record-breaking numbers of departmental student enrollment: 179 MPH students and 111 undergraduates
- Recruited 8 faculty members successfully including one Endowed Chair and Professor, 3 Associate Professors, and 4 Assistant Professors
- Mentored faculty successfully, including 5 Assistant Professors to Associate Professors with Tenure and 4 Associate Professors to Professors
- Oversee more than \$3M in extramural funding in the department
- Created and currently maintain multiple collaborations between the Department, School, University, and local, domestic, and international organizations and community partners. In 2021 alone, these collaborations generated 26 peer-reviewed publications, 27 peer-reviewed paper submissions, more than 15 SLU student co-author listings, and more than 103 faculty co-author listings (across 10 faculty members)
- Developed the Department and College strategic plans based on associated SWOT analyses
- Worked with the University President, a board of trustee member, and the College Dean to establish two University Collaboration Agreements
- Configured standard policies and procedures of the Department, resulting in the optimization of faculty apportionment realignments, performance evaluation reframing, mentoring, promotion and tenure, and students' admission, advising, and internship
- Led and participated in the campaign to explore ways to operationalize our social justice mission, resulting in developing values and practices around which training and scholarship promote our mission
- Strengthened the leadership and support for departmental academic programs of Maternal and Child Health, Epidemiology, Biostatistics, and Biosecurity and Disaster Preparedness through supervising the Directors, resulting in academic programs/concentrations management and priority setting, including mapping out courses for which duplication should be avoided and developing annual teaching schedules
- Supervised four Directors of the College's Public Health Doctoral Program, MPH Program, Undergraduate Public Health Programs (Biostatistics, Health Management, Public Health), and Health Analytics Program
- Implemented a robust communication strategy, resulting in faculty retreats, one-to-one meetings with faculty, fireside chats with students, department faculty meetings, and monthly department seminar for students, faculty, and staff
- Developed a department budget to reflect its values and priorities, resulting in enhanced support for faculty and student activities while ensuring fiscal responsibility, accountability, and transparency

PROFESSIONAL INTERESTES (current)

Research interests include community health, global health, children's health, disaster and bioterrorism preparedness, environmental health, exposure assessment, asthma, pregnancy outcomes, HIV/AIDS, and epidemiology.

MEMBERSHIPS (past and current)

International Epidemiological Association
 International Society for Environmental Epidemiology
 International Society of Exposure Analysis
 National Environmental Health Association

Chinese Association of Preventive Medicine

SERVICES

Study Section Member

NIH P30 Environmental Health Sciences Core Centers, 2015, 2016, 2018 – 2020,
2021 – 2025

Reviewer

- The National Institute for Occupational Safety and Health/The National Occupational Research Agenda (NIOSH/NORA), 2005, 2006, 2007
- National Institute of Environmental Health Sciences Special Emphasis Panel – Children Environmental Health Center, 2009, 2010, 2012
- National Institute of Environmental Health Sciences/Environmental Protection Agency's Centers for Children's Environmental Health and Disease Prevention Research (P50 Mechanism, RFA-ES-14-002), 2015
- The Health Effects Institute's program of *Walter A. Rosenblith New Investigator*, 2007, 2012
- The Environmental and Occupational Health (EOH) Program Committee of the American Thoracic Society (ATS), 2007-2008
- The American Journal of Epidemiology
- Epidemiology
- BMJ
- Science of the Total Environment
- The Journal of the Air & Waste Management Association
- The Journal of *BMC Family*
- Environmental Research
- Environment International

Chair

- Environmental Health Section, the International Forum of Public Health, Shanghai, 2007
- Committee on Global Reach, CPHSJ, 2013 – 2015.
- Global Health Strategy Committee, CPHSJ, 2011 – 2012
- Working Group of Global Health & Wellbeing, CPHSJ, 2012 – 2014
- Department Chair Searching Committee (EOH), CPHSJ, 2015 – 2016
- Epidemiology Departmental Admission Committee, CPHSJ, 2020 – 2022

Members

- Coordinating Committee, CPHSJ, 2016 – present
- Senior Leadership Committee, CPHSJ, 2011 – present
- MPH Steering Committee, CPHSJ, 2022 – present
- International Childhood Cancer Cohort Consortium, 2012 – present
- Marshal at Large, Saint Louis University, 2012 – 2015
- Comprehensive Globalization Vision Team, Saint Louis University, 2012 – 2017
- Global Health Strategy Committee, Saint Louis University, 2011 – 2012
- Committee of Global Health & Wellbeing, CPHSJ, 2013
- Doctorial Committee, CPHSJ, 2012 – 2015
- Strategic Planning Committee, CPHSJ, 2012 – 2013

- Academic Committee, CPHSJ, 2011 – 2014
- Environmental and Occupational Health Program, ATS, 2007 – 2008
- Advisory Group of PA National Environmental Public Health Tracking, 2004 – 2010
- Advisory Board, Homeland Security, PSU, 2004 – 2008
- The Graduate Education Committee, PSU, 2004 – 2008
- The Comprehensive Globalization Vision, SLU, 2012 – 2013
- Epidemiology Admissions, Curriculum, and Competency Exam Committees, 2011- present
- Dissertation committees for five MSPH students with MD Degree, 2010 – 2013, 2021 – present

Consultants

- The Pennsylvania Department of Health, Planning Consortium of Environmental Hazards/Exposure and Disease Outcomes, 2004 – 2010
- ExxonMobil Biomedical Sciences, Inc., 2005
- The Living Heart Foundation, 2004 – 2006

PUBLICATIONS

1. Lin Yinian, **Qian Z**. Indexes of health effects of the environmental Pb pollution. *Wuhan Environmental Protection* 2:49-51, 1986.
2. Xin Z, Din Y, **Qian Z**. Study of urinary biomarkers for traffic policeman exposure to Benzo[a]pyrene (BaP) *Wuhan Environmental Protection* 1:230-242, 1987.
3. Shong Z, **Qian Z**, Xu F, Lin Y. Measurement of micronucleoli in peripheral blood lymphocytes for workers in the pharmaceutical trades. *Wuhan Environmental Protection* 1:178-180, 1987.
4. Tian X, **Qian Z**. Study on Wuhan atmospheric diffusion and volume by mathematical models. *Proc of Chinese National Atmospheric Diffusion and Evaluation*, Beijing, China, 1990.
5. Lin Y, **Qian Z**. The analysis of the death cause in Yinjiadun industrial pollution in Wuhan. *Excellent Scientific Article of Hubei Province*, Wuhan, China, 1991.
6. Waldman JM, Lioy PJ, Zelenka M, Jing L, Lin YN, He QC, **Qian Z**, Chapman RS, Wilson WE. Wintertime measurements of aerosol acidity and trace elements in Wuhan, a city in central China. *Atmospheric Environment* 25B:113-120, 1991.
7. **Qian Z**, Cheng X, Xu F. Children lung function effected by air pollution – measurement of pulmo-age loss with intrinsic disturbance wave theory. *Chin J Environ Sci* 12:66-75, 1992.
8. **Qian Z**, Zhang S, Bao K. A new index of health effects of the air pollution – intrinsic disturbance wave. *Chin Environ Sci Tech* 16:187-192, 1992.
9. Xu F, Zheng X, Ding Y, Lin Y, Guo H, **Qian Z**, Xu W. Relationship between ambient air Benzo(a)pyrene (BaP) and Bap Biomarkers in Wuhan, China. *Chin Environ Sci Tech* 2: 47-52, 1992.
10. Xu F, Kong L, He Q, **Qian Z**, Guo H, Xu K. Study on children's lung function effects of exposure to indoor and outdoor air pollution. *J Yunan Prev Med* 3(4):201-212, 1998.
11. Zhang J, **Qian Z**, Kong L, Zhou L, Yan L, Chapman RS. Effects of air pollution on respiratory health of adults in three Chinese cities. *Arch Environ Health* 54(6):373-181, 1999.
12. **Qian Z**, Chapman RS, Tian Q, Chen Y, Lioy PJ, Zhang J. Effects of air pollution on children's respiratory health in three Chinese cities. *Arch Environ Health* 55(2):126-133, 2000.

13. **Qian Z**, Zhang J, Wei F, Wilson WE, Chapman RS. Long-term ambient air pollution levels; 1) intercity and intracity exposure gradients for epidemiological studies. *J Expo Anal Environ Epidemiol* 11:341-351, 2001.
14. **Qian Z**. Impacts of cooking coal smoke and heating coal smoke on respiratory health of children in four Chinese cities. In: *Proceedings of Indoor Air*: 1030-1035, 2002.
15. Buyantseva L, Korotkov KG, **Qian Z**, Bascom R, Ponomarenko GN. Gaseous discharge visualization (GDV) bioelectrography in patients with hypertension (pilot study). *Proc Measuring the Human Energy Field, State of the Science*, 31-54. The Gerontology Research Center, National Institute on Aging, National Institute of Health, Baltimore, MD, 2002.
16. Bascom R, Buyantseva LV, **Qian Z**, Dolina M, Korotkov KG. Gas discharge visualization (GDV)-bioelectrography: description of GDV performance under workshop conditions and principles for consideration of GDV as a possible health status measure. *Proc Measuring the Human Energy Field, State of the Science*, 55-66. The Gerontology Research Center, National Institute on Aging, National Institute of Health, Baltimore, MD, 2002.
17. **Qian Z**, Chapman RS, Hu W, Wei F, Korn LR, Zhang J. Using air pollution based community clusters to explore air pollution health effects in children. *Environ Int* 30:611-620, 2004.
18. **Qian Z**, Zhang J, Korn OR, Wei F, Chapman RS. Factor analysis of household factors: Are they associated with respiratory conditions in Chinese children? *Int J Epidemiol* 33:1-7, 2004.
19. **Qian Z**, Zhang J, Korn LR, Wei F, Chapman RS. Exposure-response relationships between lifetime exposure to residential coal smoke and respiratory symptoms and illnesses in Chinese children. *J Expo Anal Environ Epidemiol* 14: S78-S84, 2004.
20. Berlin CM, LaKind JS... Pugh LC, **Qian Z**, Salamone L...Tully MR, and Uhl K. Conclusions and recommendations of the expert panel: technical workshop on human milk surveillance and biomonitoring for environmental chemicals in the United States. *J Toxicol Environ Health A68*:1691-1712, 2005.
21. Fenton SE, Condon M, McDiarmid M, Ettinger A, Mason A, **Qian Z**, Selevan S, and LaKind JS. Collection and use of exposure data from human milk biomonitoring in the United States. *J Toxicol Environ Health A68*:1825-1831, 2005.
22. Wang R, Bates MN, Goldstein DA, Haynes SG, Hench KD, Lawrence RA, Mahaffey KR, Paul IM, and **Qian Z**. Human milk research for answering questions about human health. *J Toxicol Environ Health A68*:1771-1801, 2005.
23. **Qian Z**, He Q, Kong L, Chapman RS, Wei F, Bascom R. Lung function is associated with cooking coal smoke among primary school children in Wuhan, China. *Proceedings of Indoor Air*: 3607-3611, 2005.
24. He Q, **Qian Z**, Kong L, Wei F, Chapman RS, Edwards RD, Bascom R. Respiratory conditions are associated with household factors in middle aged men in Wuhan, China. *Proceedings of Indoor Air*: 3602-3606, 2005.
25. **Qian Z**, Liao D, Lin HM, Whitsel EA, Rose KM, Duan Y. Lung function and long-term exposure to air pollutants in middle-aged American adults. *Archives of Environmental & Occupational Health* 60:156-163, 2006.
26. Buyantseva LV, Tulchinsky M, Kapalka GM, Chinchilli VM, **Qian Z**, Gillio R, Roberts A, Bascom R. Evolution of Lower Respiratory Symptoms in New York Police Officers After 9/11: A Prospective Longitudinal Study. *J Occup Environ Med* 49:310-317, 2007.
27. **Qian Z**, He Q, Kong L, Xu F, Wei W, Chapman RS, Chen W, Edwards RD, Bascom R. Respiratory responses to diverse indoor combustion air pollution sources. *Indoor Air* 17:135-142, 2007.

28. **Qian Z**, He, Q, Lin HM, Kong L, Liao D, Yang N, Bentley CM, Xu S. Short-term effects of gaseous pollutants on cause-specific mortality in Wuhan, China. *J Air Waste Manag Assoc* 57:785-93, 2007.
29. Wen X, Chen W, Muscat JE, **Qian Z**, Lu C, Zhang C, Luo Y, Liang C, Han K, Deng X, Ou Y, Ling W. Modifiable family and school environmental factors associated with smoking status among adolescents in Guangzhou, China. *Preventive Medicine* 45:189–197, 2007.
30. **Qian Z**, He Q, Lin HM, Kong L, Liao D, et al. Association of daily cause-specific mortality with ambient particle air pollution in Wuhan, China. *Environmental Research* 105:380–389, 2007.
31. Wen X, Chen X, **Qian Z**, Muscat JE, Lu C, Zhang C, Luo Y, Liang C, Han K, Deng X, Ou Y, Ling W. Differences in students' smoking-related knowledge, attitudes and behaviors among public, factory and private secondary schools in Guangzhou, China. *Journal of School Health* 78:46-53, 2008.
32. **Qian Z**, He Q, Lin HM, Kong L, Liao D, Gong J, Bentley CM, Wei H. Exploring uncertainty of the change from ICD-9 to ICD-10 on acute mortality effects of air pollution. *Environment International* 34:248-253, 2008.
33. Wong CM, Vichit-Vadakan Kan H, **Qian Z**, and the PAPA Project Teams. Public Health and Air Pollution in Asia (PAPA): A Multi-City Study of Short-Term Effects of Air Pollution on Mortality. *Environ Health Perspect* 116:1195-1202, 2008.
34. **Qian Z**, He Q, Lin HM, Kong L, Bentley CM, Liu W, Zhou D. High Temperatures Enhanced Acute Mortality Effects of Ambient Particle Pollution in the “Oven” City of Wuhan, China. *Environ Health Perspect* 116:1172-1178, 2008.
35. **Qian Z**, Lin HM, Chinchilli VM, Lehman EB, Stewart WF, Shah N, Duan Y, Craig TJ, Wilson WE, Liao D, Lazarus SC, Bascom R. Associations between Air Pollution and Peak Expiratory Flow among Patients with Persistent Asthma. *Journal of Toxicology and Environmental Health, Part A* 72:39–46, 2009.
36. Berger Z, Kimbrough W, Gillespie C, Boscarino JA, Wood GC, **Qian Z**, Jones JB, Shah NR. Lower copay and oral administration: predictors of first-fill adherence to new asthma prescriptions. *AHDB* 2:174-180, 2009.
37. **Qian Z**, Lin HM, Chinchilli VM, Lehman EB¹, Duan Y, Craig TJ, Wilson WE, Liao D, Lazarus SC, Bascom R. Interaction of ambient air pollution with asthma medication on exhaled nitric oxide among asthmatics. *Archives of Environmental and Occupational Health* 64:168-176, 2009.
38. Kan H, Wong CM; Vichit-Vadakan N; **Qian Z**, the PAPA Project Team. Short-term association between sulfur dioxide and daily mortality: The Public Health and Air Pollution in Asia (PAPA) study. *Environmental Research* 110:258-264, 2010.
39. **Qian Z**, Lin HM, Stewart WF, Kong K, Xu F, Zhou D, Zhu Z, Liang S, Chen W, Shah N, Stetter C, He Q. Seasonal patterns of acute mortality effects of ambient air pollution. *J Air Waste Manag Assoc* 60:481-488, 2010.
40. Cheriya P, Duan Y, **Qian Z**, Nambiar L, Liao D. Obesity, physical activity and the development of metabolic syndrome: the atherosclerosis risk in community study. *European Journal of Cardiovascular Prevention & Rehabilitation* 17: 309-313, 2010.
41. **Qian Z**, He, Q, Lin HM, Kong L, Zhou D, Liao D, Liu W, Bentley CM, Dan J, Wang B, Yang N, Xu S, Gong J, Wei H, Sun H, Qin Z. Part 2. Association of Daily Mortality with Ambient Air Pollution, and Effect Modification by Extremely High Temperature in Wuhan, China. In: Public Health and Air Pollution in Asian (PAPA): Coordinated Studies of Short-Term Exposure to Air Pollution Daily Mortality in Four Cities. HEI Research Report 154. Health Effects Institute, Boston, MA, 2010.

42. Wong CM,...Kan HD,...Vichit-Vadakan NV,...**Qian Z**... Part 5. Public Health and Air Pollution in Asian (PAPA): A Combined Analysis of Four Studies of Air Pollution and Mortality. In: Public Health and Air Pollution in Asian (PAPA): Coordinated Studies of Short-Term Exposure to Air Pollution Daily Mortality in Four Cities. HEI Research Report 154. Health Effects Institute, Boston, MA, 2010.
43. Dong G, **Qian Z**, Xaverius P, Trevathan E, Maalouf S, Parker J, Yang L, Liu M, Wang D, Ren WH, Ma W, Wang J, Zelicoff A, Fu Q and Simckes M. Association Between Long-Term Air Pollution and Increased Blood Pressure and Hypertension in China. *Hypertension* 61:578-584, 2013. **Corresponding Author.**
44. Dong GH, **Qian Z**, Liu MM, Wang D, Ren WH, Bawa S, Fu Q, Wang J, Lewis R, Zelicoff A, Simckes M, Trevathan E. Breastfeeding decreases the respiratory health effects of air pollution in Chinese children: The Seven Northeastern Cities (SNEC) Study. *Epidemiology* 24:387–394, 2013. **Corresponding Author.**
45. Dong GH, **Qian Z**, Liu MM, Wang D, Ren WH, Fu Q, Wang J, Simckes M, Ferguson TF, Trevathan E. Obesity Enhanced Respiratory Health Effects of Ambient Air Pollution in Chinese Children: The Seven Northeastern Cities (SNEC) Study. *International Journal of Obesity* 37: 94–100, 2013. **Corresponding Author.**
46. Dong GH, **Qian Z**, Wang J, Trevathan E, Ma WJ. Chen WQ, Xaverius PK, Buckner-Petty K, Ray A, Liu MM, Wang D, Ren WH, Emo B, Chang JJ. Residential characteristics and household risk factors and respiratory diseases in Chinese women: The Seven Northeast Cities (SNEC) Study. *Science of The Total Environment* 463–464:389–394, 2013. **Corresponding Author.**
47. Dong GH, **Qian Z**, Wang J, Chen WQ, Ma WJ, Trevathan E, Xaverius PK, DeClue R., Wiese A, Langston M, Liu MM, Wang D, Ren WH. Associations between ambient air pollution and prevalence of stroke and cardiovascular diseases in 33 Chinese communities. *Atmospheric Environment* 77: 968-973, 2013. **Corresponding Author.**
48. Zhao Y, **Qian Z**, Dong GH, Wang J, Vaughn M, Liu YQ, Ren WH, Lee YL. Does Obesity Amplify the Association between Ambient Air Pollution and Increased Blood Pressure and Hypertension in Adults? Findings from the 33 Communities Chinese Health Study. *International Journal of Cardiology* 168(5):e148-e150, 2013.
49. Dong G, **Qian Z**, Fu Q, Wang J, Trevathan E, Ma W, Liu M, Wang D, Ren WH, Ong KH, Ferguson TF, Riley E, Simckes M. A Multiple Indicators Multiple Cause (MIMIC) Model of Respiratory Health and Household Factors in Chinese Children: The Seven Northeastern Cities (SNEC) Study. DOI 10.1007/s10995-013-1245-6. *Matern Child Health J* 18(1):129-137, 2014. **Corresponding Author.**
50. Dong GH, **Qian Z**, Liu MM, Wang D, Ren WH, Flick LH, Fu J, Wang J, Chen W, Simckes M, Trevathan E. Ambient air pollution and the prevalence of obesity in Chinese children: the Seven Northeastern Cities (SNEC) Study. *Obesity* 22: 795–800. doi:10.1002/oby.20198, 2014. **Corresponding Author.**
51. Wang D, **Qian Z**, Wang J, Yang M, Lee YL, Liu F, Liu MM, Zhao Y, Liu YQ, Huang MM, Liu Y, Sun J, Liu YZ, Wu CC, Dong GH. Gender-specific differences in associations of overweight and obesity with asthma and asthma-related symptoms in 30,056 children: results from 25 districts of Northeastern China. *Journal of Asthma*, doi: 10.3109/02770903.2014.892963, 2014.
52. Dong GH, **Qian Z**, Trevathan E, Zeng XW, Vaughn MG, Wang J, Zhao Y, Liu YQ, Ren WH, Qin XD. Air pollution associated hypertension and increased blood pressure may be reduced by breastfeeding in Chinese children: The Seven Northeastern Cities Chinese Children's Study. *International Journal of Cardiology* 176(3):956-961, 2014.

53. Yang S, Zhang B, Zhao J, Wang J, Flick L, **Qian Z**, Zhang D, Mei Hui. Progress on the Maternal Mortality Ratio Reduction in Wuhan, China in 2001–2012. *PLoS ONE* 9(2): e89510. doi:10.1371/journal.pone.0089510, 2014.
54. Lin H, Zhang Y, Liu T, Xiao J, Xu Y, Xu X, **Qian Z**, Tong S, Luo Y, Zeng W, Ma W. Mortality reduction following the air pollution control measures during the 2010 Asian Games, *Atmospheric Environment*, doi: 10.1016/j.atmosenv.2014.03.051, 2014.
55. **Qian Z**, Dong GH, Ren WH, Simckes M, Wang J, Zelicoff A, Trevathan E. Effect of pet ownership on respiratory responses to air pollution in Chinese children: The Seven Northeastern Cities (SNEC) study. *Atmospheric Environment* 87: 47-52, 2014.
56. Dong GH, **Qian Z**, Wang J, Chen WQ, Ma WJ, Trevathan E, Liu MM, Wang D, Ren WH, Chen W, Simckes M, Zelicoff A. Home renovation, family atopy history, and respiratory symptoms and asthma in Chinese children: The Seven Northeastern Cities (SNEC) Study. *American Journal of Public Health*, DOI: 10.2105/AJPH.2013.301438, 2014.
- Corresponding Author.**
57. Liu T, Zhang YH, Xu YJ, Lin HL, Xu XJ, Luo Y, Jian PX, Zeng WL, Zhang WF, Chu C, Keogh K, Rutherford S, **Qian Z**, Du YD, Hu M, Ma WJ. The effects of dust-haze on mortality are modified by seasons and individual characteristics in Guangzhou, China, *Environmental Pollution* 187:116-23. doi: 10.1016/j.envpol.2013.12.027, 2014.
58. Ong KH, Lewis R, Dixit A, MacDonald M, Yang M, **Qian Z**. Inactivation of dust mites, dust mite allergen, and mold from carpet. *Journal of Occupational & Environmental Hygiene* 11: 519-527, 2014.
59. Huang MM, **Qian Z**, Wang J, Vaughnd MG, Lee YL, Dong GH. Validation of the Sleep Disturbance Scale for Children and prevalence of parent-reported sleep disorder symptoms in Chinese children, *Sleep Medicine*; 15(8):923-928, 2014.
60. Xiao J, Peng J, Zhang Y, Liu T, Rutherford S, Lin H, **Qian Z**, Huang C, Luo Y, Zeng W, Chu C, Ma W. How much does latitude modify temperature–mortality relationship in 13 eastern US cities? *Int J Biometeorol*, doi: 10.1007/s00484-014-0848-y, 2014.
61. Vaughn MG, Salas-Wright CP, Maynard BR, **Qian Z**, Terzis L, Kusow AM, DeLisi M. Criminal epidemiology and the immigrant paradox: Intergenerational discontinuity in violence and antisocial behavior among immigrants. *Journal of Criminal Justice* 42:483–490, 2014.
62. Vaughn MG, Salas-Wright CP, DeLisi M, **Qian Z**. The antisocial family tree: A multigenerational examination of behavior problems in the United States. *Social Psychiatry and Psychiatric Epidemiology*, DOI 10.1007/s00127-014-0987-9, 2014.
63. Ma YN, **Qian Z**, Wang J, Rodemich E, Lee YL, Lv XF, Liu YQ, Zhao Y, Huang MM, Liu Y, Sun J, He QC, Dong GH. Environmental Tobacco Smoke Exposure, Urine CC-16 Levels, and Asthma Outcomes among Chinese Children. *Allergy* 2015; 70(3):295-301. DOI: 10.1111/all.12559, 2014.
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13. **Qian Z**, Liao D, Lin HM, Whitsel E, Rose K, Duan K. Association of long-term exposure to ambient particulates and ozone with lung function in American adults—a population based study. *Epidemiology* 15: S46, 2004.
14. Kapalka G, Letizia G, Bascom R, **Qian Z**, Buyantseva L, Young M, Roberts A. Physical and mental health of New York city police officers 18 months after the World Trade Center attacks. *Epidemiology* 15: S123, 2004.
15. Liao D, Mo J, Duan Y, Lin H, Darnell M, **Qian Z**. The Joint Effect of Hypertension and Elevated LDL-Cholesterol on CHD Is Beyond Additive. European Society of Cardiology Congress 2004. Aug. 28-Sept 1, 2004. Munich, Germany.
16. Liao D, Mo J, Duan Y, Lin H, Gillen D, Pu M, **Qian Z**. Racial Differences in the Joint Prevalence of Hypertension, Elevated LDL-Cholesterol, and Diabetes in a Population-Based Study. American Heart Association's 58th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease. October 9-12, 2004. Chicago, IL.
17. **Qian Z**, He Q, Lin HM, Liao D, et al. Interim report of Ambient Particle Air Pollution and Daily Mortality in Wuhan. Health Effects Institute Annual Conference. Baltimore, MD, 2005.
18. **Qian Z**, He Q, Lin HM, Liao D, et al. Ambient Particle Air Pollution and Daily Mortality. Health Effects Institute's PAPA investigators' workshop, HongKong, China, 2005.
19. Buyantseva LV, Kampala G, Leticia G, **Qian Z**, Engle LL, Gillis R, Roberts A, Bascom R. Evolution of respiratory symptoms in New York Police Officers over eighteen months post 9/11, *Annals of Epidemiology* 8, 662, 2005
20. Letizia G, Kapalka G, Bascom R, Gillio R, **Qian Z**, Buyantseva L, Roberts A. Mental Health Functioning of NYPD Officers 18 Months After 9/11/2001, American Psychological Association, Washington, DC, August 18-21, 2005.

21. **Qian Z**, Lin HM, Liao D, Lehman EB, Chinchilli VM, Craig TJ, Duan Y, Lazarus SC. Interaction between ambient air pollution and typical asthma medication regimens on exhaled nitric oxide. *Epidemiology* 17: S287, 2006.
22. **Qian Z**, He Q, Lin HM, Liao D, Bentley CM, Kong L, Zhou D, Liu W, Yang N, Dan J, Xu S, Xu F, Wang B. Acute mortality effects of ambient particle air pollution, air pollution-by-hot weather interaction in Wuhan, China. *Epidemiology* 17: S266, 2006.
23. **Qian Z**, He Q, Lin HM, Liao D, Bentley CM, Kong L, Zhou D, Liu W, Yang N, Dan J, Xu S, Xu F, Wang B. Modification of extreme hot weather on effects of ambient air particle pollution on cause-specific mortality in Wuhan, China. Health Effects Institute's Annual Conference, San Francisco, CA, April, 2006.
24. Foster JD, Buyantseva LV, Lehman EB, **Qian Z**, Robert L. Vender RL, Roberts AJ, Bascom R. Reference values for pulmonary function of retired professional American football players. *Chest* 130: 247S, 2006.
25. **Qian Z**, He Q, Lin HM, Kong L, Zhou D, Liao D, Liu W, Bentley CM, Dan J, Wang B, Yang N, Xu S, Gong J, Wei H, Sun H, Qin Z. Acute health effects of ambient air pollution on cause-specific mortality in a stove city of Wuhan, China. Better Air Quality 2006, Yogyakarta, Indonesia, 2006.
26. Vichit-Vadakan..., Wang CM..., Chen BH..., **Qian Z**... Public Health and Air Pollution in Asia (PAPA) – A multi-city study for short-term effects of air pollution on mortality. Better Air Quality 2006, Yogyakarta, Indonesia, 2006.
27. **Qian Z**, He Q, Lin HM, Liao D, Bentley CM, Kong L, Zhou D, Liu W, Yang N, Dan J, Xu S, Xu F, Wang B. Time Series Analyses of Air Pollution Mortality Effects in Wuhan, China. Health Effects Institute's Annual Conference, Chicago, IL, April, 2007.
28. Wong CM, Vichit-Vadakan, Kan HD, **Qian Z**. Public Health and Air Pollution in Asia (PAPA): A multi-city study for short-term effects of air pollution on mortality. Health Effects Institute's Annual Conference, Chicago, IL, April, 2007.
29. **Qian Z**, He Q, Lin HM, Kong L. Seasonal patterns of acute mortality effects of ambient air pollution. International Forum of Public Health, Shanghai 2007, December 2007.
30. **Qian Z**, Lin HM, Stewart WF, Kong L, Zhou D, Zhu Z, Liang S, Shah N, Chen W, Stetter C. Seasonal patterns of the acute mortality effects of air pollution. Better Air Quality 2008, Bangkok, Thailand, 2008.
31. CM Wong, Nitaya Vajanapoom, Kan K, **Qian Z**. Overview of Combined Study - Coordinated Analytic Approach and Analysis. Better Air Quality 2008, Bangkok, Thailand, November 2008.
32. Qian Z and Schwartz B. Agriculture, the Susquehanna River, and Epidemiological Connections. The 3rd Annual Susquehanna River Symposium, Lewisburg, PA, 2008.
33. **Qian Z**, Blosky MA, Wood CG, Betoni J, Black L, Whary A, Mateer H, Stewart WF. Post-discharge health Care costs for preterm infants. HMO Research Network, 16th Annual Conference, Austin, Texas, 2010.
34. Liang SW, Mehta S, Zhang B, **Qian Z**. Use of Air Quality Data in Studies of Air Pollution and Children's Health in Wuhan. Better Air Quality 2010, Singapore. November 2010.
35. **Qian Z**, Zhang B, Liang S, Fu J, Evans RG, Yang S, Yang R, Hu R, Chen Z, Wang J, Wei H, Hu K, Peng H. Air Pollution and Adverse Pregnancy Outcomes in Wuhan, China. Health Effects Institute's Annual Conference, Boston, MA, May 2011.
36. **Qian Z**, Liang S, Zhang B, Yang S, Wei H, Fu J, Evans G, Yang R, Hu R, Chen Z, Wang J, Hu K, and Peng H. Health Effects of Air Pollution on Preterm Births and Low Birth Weights in Wuhan, China. Health Effects Institute's Annual Conference, Chicago, IL, April, 2012.

37. Bawa S, Dong G, **Qian Z**, Fu J, Wang J, Lewis R, Zelicoff A, Trevathan E. Breastfeeding decreases the effect of ambient air pollution on respiratory symptoms and illness in Chinese children: The 25 Districts Chinese Study (DCS). APHA 140th Annual Meeting & Expo, San Francisco, CA, October, 2012.
38. **Qian Z** and Trevathan E. Air Pollution and Adverse Pregnancy Outcomes in Wuhan, China. International Childhood Cancer Cohort Consortium (I4C), 5th International Meeting. International Agency for Research on Cancer (IARC), Lyon, France, November, 2012.
39. Dong GH, **Qian Z**, Trevathan E, Liu MM, Wang D, Ren WH, Simckes M, Wang J, Fu Q, Zelicoff A. Pet Ownership Decreases Respiratory Responses to Air Pollution in Children: the Seven Northeastern Cities Study. The 18th Annual Maternal and Child Health Epidemiology (MCH EPI) cohosted with the 2012 CityMatCH Urban MCH Leadership Conference. San Antonio, TX, December 2012.
40. **Qian Z**, Zhang B, Liang S, Jing Wang, Yang S, Yang R., Flick L. Hu R, Wang J, and Hu K. Associations between Ambient Air Pollution and Preterm Births and Low Birth Weights in Wuhan, China. Health Effects Institute's Annual Conference, San Francisco, CA, April, 2013.
41. **Qian Z**, Zhang B, Liang S, Wang J, Yang S, Yang R, Flick LH, Hu R, Wang J, Hu K. Cohort Profile: The Wuhan Adverse Pregnancy Outcome Study. Health Effects Institute's Annual Conference, Alexandria, Virginia, May 2014.
42. **Qian Z**. Ambient Air Pollution and Adverse Pregnancy Outcomes. School of Public Health, Sun Yat-sen University, Guangzhou, China, October 21, 2014.
43. **Qian Z**. Air Pollution Epidemiology: The Seven Northeastern Cities (SNEC) Study. Chinese Research Academy of Environmental Sciences. Beijing, China, October 30, 2014.
44. **Qian Z**. Opportunities in Wuhan, China: Available Populations for Studies. Saint Louis University College for Public Health and Social Justice. Saint Louis, MO, November 12, 2014.
45. **Qian Z**. Populations for Childhood Cancer Studies in Wuhan, China. International Childhood Cancer Cohort Consortium (I4C), 7th International Meeting. International Agency for Research on Cancer (IARC), Lyon, France, November 2014.
46. Jakhar S, Williams C, Flick L, Chang JJ, **Qian Z**, Wang J. Racial Disparity in Correlates of Late Preterm Births: A Population-Based Study. Making Lifelong Connections 2015: Leadership, Networking, and Professional Development, Fifth Annual Meeting, San Antonio, TX, April 2015.
47. **Qian Z**, Zhang B, Liang S, etc. Air Pollution and Adverse Pregnancy Outcomes in Wuhan, China. The China Forum on Public Health, Environment, and Public Policy. Providence, RI, April 2015.
48. **Qian Z**. Case-control Study: Ambient Air Pollution and Adverse Pregnancy Outcomes. China National Institute of Environmental Health Science Epidemiology & Biostatistics Workshop. XiAn, China, June 2015.
49. **Qian Z**. Seven Northeast Chinese Cities Study of Air Pollution and Human Health. China National Institute of Environmental Health Science Epidemiology & Biostatistics Workshop. XiAn, China, June 2015.
50. **Qian Z**. Modifications of temperature extremes on health effects of ambient air pollution on preterm birth. Invited lecture by School of Public Health, Sun Yat-sen University, Guangzhou, China, September, 2015.

51. Yan YQ and **Qian Z**. Incidence of Childhood Cancer from 1993 to 2012. Wuhan Centers. International Childhood Cancer Cohort Consortium (I4C), 8th International Meeting. University of Oxford, Oxford, UK, November 2015.
52. **Qian Z**. Study Designs for Population Studies. Invited lecture at Guangzhou Occupational Disease Prevention & Treatment Centre, Guangzhou, China, March 8, 2016.
53. Zhao J, Zhang B, Yang S, Liang S, **Qian Z**, Xu S. Maternal Exposure to Air Pollution and Risk of Oral Clefts. Barcelona, Spain, March 2016.
54. Yang S, Zhang B, Zhao J, Liang S, **Qian Z**, Xu S, Zheng. Ozone and Other Air Pollutants and the Risk of Congenital Health Defects. The 3rd World Congress on Controversies in Pediatrics (CoPedia), Barcelona, Spain, March 2016.
55. **Qian Z**. How to Write English Peer-Reviewed Papers on Air Pollution Epidemiology. Invited lecture by School of Public Health, Sun Yat-sen University, Guangzhou, China, July 2016.
56. **Qian Z**. Application of Epidemiology in Occupational Health Sciences. The Fourth Symposium of Guangdong Occupational Health Association. JiangMen, Guangdong, China, September 2016.
57. **Qian Z**. Progress of Occupational Health Epidemiology. Invited lecture at Guangzhou Occupational Disease Prevention & Treatment Centre, Guangzhou, China, September 2016.
58. Geiger S, Yao P, Rogers E, Vaughn MG, **Qian Z**. Association between PFOA, PFOS and obesity among children in a nationally representative sample. Council on Hypertension Scientific Sessions, Orlando, FL, September 2016.
59. **Qian Z**. A successful collaboration between Saint Louis University and Wuhan Medical and Health Center for Women and Children, Wuhan, China, October 2016.
60. Gebauer S, Schafer C, Sciarratta C, Xaverius P, Schootman M, **Qian Z**, Hong Xian H. Social Cohesion and Preconception Health Behaviors Among Reproductive-Age Women. 45th Annual North American Primary Care Research Group, Montreal, Canada, November 2017.
61. Lew D, Xian H, **Qian Z**, Vaughn MG. Examining the relationships between life satisfaction and alcohol, tobacco, and marijuana use among school-aged children. APHA 2017 Annual Meeting & EXPO, Atlanta, GA, November 2017.
62. Gebauer S, Sciarratta C, Schafer C, Schootman M, **Qian Z**, Xaverius P, Xian H. Social Cohesion and Preconception Morbidity in a National Sample of Reproductive-Age Women. The Society of Teachers of Family Medicine Annual meeting, Washington DC, May 2018.
63. **Qian Z**. Associations between Ambient PM_{2.5} and Health Outcomes in Six Low- and Middle-Income Countries. National Center for Chronic and Noncommunicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China. November 7, 2018.
64. Gong J, Yan YQ, **Qian Z**. Time Trends in Incidence of Childhood Leukemia among Urban Wuhan during 1988-2015. Childhood Leukemia International Consortium (CLIC) and International Childhood Cancer Cohort Consortium (I4C) Joint International Symposium, Tokyo, Japan, November 12, 2018.
65. Lew D, Xian H, Loux T, **Qian Z**, Vaughn M. The impact of short sleep duration on five latent classes among adolescents with distinct mental and behavioral health profiles. The APHA's 2019 Annual Meeting and Expo, Philadelphia, PA, November 2-6, 2019.

SELECTED INVITED SPEAKING ENGAGEMENTS

1. Pilot Study Results and Interim Full-scale Study Results Regarding Health Effects of Outdoor and Indoor Air Pollution in Four Chinese Cities, US EPA, Research Triangle Park, NC, 1992
2. Health Effects of Ambient Air Pollution on Urban Residents, Symposium on Air Pollution Epidemiology of the WHO, Beijing, China, 1993
3. Impacts of cooking coal smoke and heating coal smoke on respiratory health of children in four Chinese cities, China EPA, Beijing, China, 1994
4. Study on children's lung function effects of exposure to indoor and outdoor air pollution, China EPA, Beijing, China, 1995
5. Effects of air pollution on children's respiratory health in three Chinese cities, US EPA, Research Triangle Park, NC, 1996
6. Health Effects of Exposure to 9/11 Attacks in NYPD Officers, The National Institute for Occupational Safety and Health, Morgantown, WV, 2003
7. Ambient particle air pollution and daily mortality, Health Effects Institute, Hong Kong, China, 2005
8. Respiratory responses to diverse indoor combustion air pollution sources, Better Air Quality, Yogyakarta, Indonesia, 2006
9. Seasonal patterns of acute mortality effects of ambient air pollution, International Forum of Public Health, Shanghai, China, 2007
10. Short-term effects of air pollutants on cause-specific mortality, University of Pittsburgh, School of Public Health, Pittsburgh, PA, 2008
11. High temperatures enhanced acute mortality effects of ambient particle pollution in the "oven" city of Wuhan, China, Health Effects Institute Annual Conference, Philadelphia, PA, 2008
12. Design of time-series study on health effects of air pollution on daily mortality, Wuhan EPA, Wuhan, China, 2009
13. Nested study design in air pollution Epidemiology, Wuhan Medical and Health Center for Women and Children, Wuhan, China, 2011
14. The Fall Semester Certificate Ceremony at the Center for Teaching Excellence at SLU, offering reflections on my teaching experiences, 2011.
15. Birth cohort study, International Agency for Research on Cancer (IARC), Lyon, France, 2012
16. Health effects of air pollution on pregnancy outcomes, Guangdong CDC, Guangzhou, China, 2013
17. Adverse Pregnancy Outcomes and Multiple Risk Factors: Findings from a prospective cohort study of 100,000 pregnant women in Wuhan, China, Saint Louis Maternal and Child Health Research Spotlight, Saint Louis, MO, April 2022.
18. Ambient Air Pollution and Adverse Pregnancy Outcomes: a cohort study of 100,000 pregnant women in Wuhan, China. Vanderbilt Institute for Global Health, Vanderbilt University School of Medicine, Nashville, TN, May 2022.
19. Global Health Efforts on Maternal and Child Health. Interdisciplinary Environmental Toxicology Program, the University of Illinois in Urbana Champaign, Champaign, IL, September 2022.

TEACHING**Course Director**

1. PHP 527, Public Health Evaluation of Disasters and Bioterrorism, a three-credit graduate level course in the Master of Homeland Security in Public Health Preparedness Program, Pennsylvania State University College of Medicine, 2005 – present
2. PUBH 5960, Capstone in Public Health Practice: Biostatistics and Epidemiology, a three-credit graduate level course, Saint Louis University College for Public Health and Social Justice, 2018 – present
3. PUBH 5030, Methodological Approaches to Understanding Population Health, a three-credit graduate level course, Saint Louis University College for Public Health and Social Justice, 2020 – present
4. EPI 5000, Principles of Epidemiology, a three-credit graduate level course, Saint Louis University College for Public Health and Social Justice, 2011 – 2019
5. EPI 5500, Environmental and Occupational Epidemiology, a three-credit graduate level course, Saint Louis University College for Public Health and Social Justice, 2013 – 2019
6. EPI 4000, Introduction to Epidemiology: Foundations & Practice, a three-credit undergraduate level course, Saint Louis University College for Public Health and Social Justice, 2020 – present
7. PHS 6990, Dissertation Research, a one-credit graduate level course, Saint Louis University College for Public Health and Social Justice, 2018 – present

Co-Instructor

HES 550, Principles of Epidemiology, a three-credit course in the Department of Health Evaluation Sciences, Pennsylvania State University College of Medicine, 2005 – 2007

Guest Instructor

1. HPA 540 and STAT 597, Epidemiological Methods, a three-credit course in the Departments of Statistics and Health Policy and Administration, Pennsylvania State University, 2006 – 2007
2. PHS 6010 Design and Analysis in Public Health, a three-credit course in the Saint Louis University College for Public Health and Social Justice, 2020 – present
3. MCH 5220, Maternal and Child Health Epidemiology, a three-credit course in the Saint Louis University College for Public Health and Social Justice, 2015 – 2017
4. PUBH 2300, Contemporary issues in Global Health, a three-credit course in the Saint Louis University College for Public Health and Social Justice, 2014 – 2016
5. BST4400, Introduction to Data Management, a three-credit course in the Saint Louis University College for Public Health and Social Justice, 2018 – present

Doctoral Thesis Committee

1. Chair, Jia Sun, Department of Epidemiology and Biostatistics, Saint Louis University College for Public Health and Social Justice, 2018-2021
2. Member, Vladimir Vukovic, Ph.D., Dept. of Architectural Engineering, Pennsylvania State University, 2006 – 2010
3. Member, Elizabeth Stanwyck, Ph.D., Dept. of Mathematics and Statistics, University of Maryland, Baltimore County, 2008 – 2010
4. Member, Julie Gary, Ph.D., Dept. of Epidemiology, School of Public Health, Saint Louis University, 2011 – 2012
5. Member, Gorgia Luckey, Ph.D. Dept. of Biostatistics, College for Public Health and Social Justice, Saint Louis University, 2017

Post-Doctoral Fellow Mentor

1. Maya Tabet, PhD, MPH (February 2022 – present), Saint Louis University
2. Huliang Lin, PhD (March 2017 – February 2018), promoted to Professor of Epidemiology, School of Public Health, Sun Yat-sen University, Guangzhou, China
3. Rong Yang (February 2014 – January 2016, Wuhan Medical and Health Center for Women and Children, Wuhan, China
4. Guanghui Dong, MD, PhD (August 2011-August 2012), promoted to Professor of Epidemiology, China Medical University, Shenyang, China
5. Larisa Buyantseva, MD (January 2005-December 2006), promoted to an attending physician at PinnacleHealth System in Harrisburg, PA
6. Limin Jiang, MD (January 2006-April 2006), promoted to Office Director of Nanshan CDC in Shenzhen, China
7. Rong Fu, MD (January 2007-July 2007), chief physician at No.2 Hospital of Shungde, Guangdong, China

Advisor

2003-2005	Medical Student Research (MSR) projects
2010-2011	Graduate students: Xiaoye Wang and Meera Muthukrishnan
2011-2012	Graduate students: Carolyn Semar, Maayan Simckes, Shahida Bawa, Richard DeClue, Andrew Wiese, Marvin Langston, Salwa Maalouf, Jamaal Parker, Laiji Yang, Asheesh Ray, and Skye Buckner-Petty
2012-2013	Graduate students: Eugene Rodemich, Karen Gauvain, John Stith, and Erin Riley Undergraduate students: Lindsay Berman, Esinam Davies, Michelle Filipek, Sarah Love, Jessica Smith, Merhunisa Talovic.
2013-2014	Graduate students: Patrick Ward, Lindsey Phelps, Antonia Micell, Lori Holtz, Minjun Gao, Ting Xiao, Clary Fang, Yun Liu, Moana Kanel, Samantha Green, Siyu Niu, Kuntal Shah, Zhongyu Li, Zidong Zhang, Kristen Stevens, Jessica Clark Undergraduate students: Lindsay Berman, Esinam Davies, Khalil, Sarah Love, Jessica Smith, Palmer Andrew, Merhunisa Talovic, Lu Boning
2014-2015	Graduate students: Patrick Ward, Katelyn Parrish, John Phillip Pemberton, Jourdan Howard, Minjun Gao, Ting Xiao, Clary Fang, Yun Liu, Moana Kanel, Samantha Green, Siyu Niu, Kuntal Shah, Zhongyu Li, Zidong Zhang, Kristen Stevens, Jessica Clark, Carolyn Schafer, Melissa A. Anandappa, Shruti S. Dharwadkar, Dewonna E. Ferguson, Andrew W. Schroeder, Samantha A. Wasala, Manasa Vemuri, Fei Teng, Katherine Matthews, Rebecca Dick, Elaina Murray, Kahee Mohammed, Shailja Jakhar, Yismaw Hailegiorgis, Richai Burgens, Daniel Fleming
2015-2016	Undergraduate students: Lindsay Berman, Davies, Esinam I., Merette Khalil, Love, Sarah D., Smith, Jessica E., Andrew Palmer, Talovic, Merhunisa, Boning Lu, Ferguson, Dewonna E., Hasan, Muneeb S., Nolette, Vincent M., Patel, Avni N., Raichur, Shalini S., Sagireddy, Sravani, Vemuri, Manasa, Zhang, Kayla L., Ashlyn Lipnicky Graduate students: Katelyn Parrish, John Phillip Pemberton, Shruti S. Dharwadkar, Carolyn R. Schafer, Samantha A. Wasala, Rebecca Dick, Kahee

Mohammed, Shailja Jakhar, Yismaw Hailegiorgis, Richai Burgens, Clary Fang, April Li, Siyu Liu, Melissa Anandappa, Savannah Jordan, Andrew Jorn, Becky Brosch, Cai Miao, Shivani Pandya

Undergraduate students: Lauren G. Anderson, Dewonna E. Ferguson, Muneeb S. Hasan, Rachel M. Neuhalfen, Shivani Pandya, Avni N. Patel, Shruthika R. Pochampally, Shalini S. Raichur, Alishia J. Randle, Sravani Sagireddy, Kayla L. Zhang, Manasa Vemuri

2016-2017 Graduate students: Katelyn Parrish, John Phillip Pemberton, Savannah Jordan, Georgia Luckey, Shruti S. Dharwadkar, Carolyn R. Schafer, Samantha A. Wasala, Rebecca Dick, Kahee Mohammed, Shailja Jakhar, Yismaw Hailegiorgis, Richai Burgens, Clary Fang, April Li, Siyu Liu, Melissa Anandappa, Andrew Jorn, Becky Brosch, Cai Miao, Shivani Pandya, Jia Sun
Undergraduate students: Lauren G. Anderson, Dewonna E. Ferguson, Muneeb S. Hasan, Rachel M. Neuhalfen, Shivani Pandya, Avni N. Patel, Shruthika R. Pochampally, Shalini S. Raichur, Alishia J. Randle, Sravani Sagireddy, Kayla L. Zhang, Manasa Vemuri

2017-2018 Graduate students: Clayton Adams, Ruaa Al-Juboori, Asabe Garba, Sunita Manu, Salah Sawsan, Daire Jansson, Xinyin Xin, Savannah Jordan, Jia Sun
Undergraduate students: Maria Bukowska, Leah Burkley, Muneeb Hasan, Ellen Hutti, Abigail Ketema, Brigid Keeley, Avni Patel, Shalini S. Raichur, Alishia Randle, Sravani Sagireddy, Janvi Patel, Andrew Ruesch

2018-2019 Graduate students: Clayton Adams, Ruaa Al-Juboori, Asabe Garba, Sunita Manu, Salah Sawsan, Daire Jansson, Xinyin Xin, Morgan LeBaige, Jia Sun
Undergraduate students: Maria Bukowska, Ellen Hutti, Abigail Ketema, Mayur P. Khanna, Avni Patel, Janvi Patel, Andrew Ruesch, Shalini S. Raichur, Rebecca Rivas-D'amico

2019-2020 Graduate students: Clayton Adams, Ruaa Al-Juboori, Asabe Garba, Sunita Manu, Salah Sawsan, Daire Jansson, Xinyin Xin, Morgan LeBaige, Ruaa Al-Juboori, Jia Sun

Undergraduate students: Grace De Cicco, Camila Gonzalez, Muneeb Hasan, Maria Bukowska, Ellen Hutti, Abigail Ketema, Mayur P. Khanna, Roop Patel, Allison Prosocki, William Scheipeter, Megan Sobolewski, Janvi Patel, Janvi Patel, Andrew Ruesch, Shalini S. Raichur, Rebecca Rivas-D'amico

2020-2021 Graduate students: Morgan LeBaige, Hannah Aaron, Jia Sun, Xiao Li, Elizabeth Bingheim, Amy Keith, Sabel Bass, Ri'Enna Boyd, Maya Terry, Kayley Cunningham, Onyekachukwu Anikamadu, Sophia Cantwell, Mehdiya Hassan, Chido Moyo, Catherine Mulligan, Madison Martin-Giacalone, Makailya Pickrell

Undergraduate students: Ruaa A.Al-Juboori, Grace V. Decicco, Camila I. Gonzalez, Muneeb S. Hasan, Abigail F. Ketema, Abigail M. Maloney, Janvi M.

Patel, Roop K. Patel, Allison G. Prososki, Rebecca Rivas-D'Amico, Andrew J. Ruesch, William L. Scheipeter, Megan Sobolewski, Kamryn Carroll, Madelyn M. Coleman, Bridget G. Curran, Chris D. Hopwood, Sophia M. Kaltsas, Akhil Kumar, Shailie D. Shah

2021-2022 Graduate students: Morgan LeBaige, Hannah Aaron, Jia Sun, Xiao Li, Elizabeth Bingheim, Amy Keith, Sabel Bass, Ri'Enna Boyd, Maya Terry, Kayley Cunningham, Onyekachukwu Anikamadu, Sophia Cantwell, Mehdi Hassan, Chido Moyo, Catherine Mulligan, Madison Martin-Giacalone, Makailya Pickrell, etc.

Undergraduate students: Ruaa A.Al-Juboori, Grace V. Decicco, Camila I. Gonzalez, Muneeb S. Hasan, Abigail F. Ketema, Abigail M. Maloney, Janvi M. Patel, Roop K. Patel, Allison G. Prososki, Rebecca Rivas-D'Amico, Andrew J. Ruesch, William L. Scheipeter, Megan Sobolewski, Kamryn Carroll, Madelyn M. Coleman, Bridget G. Curran, Chris D. Hopwood, Sophia M. Kaltsas, Akhil Kumar, Shailie D. Shah, etc.

CURRENT RESEARCH

Center of Excellence in Maternal and Child Health

Education, Research, and Practice

06/2020 – 06/2025

Health Resources & Services Administration (HRSA)

\$1,780,000

Role: Principal Investigator (PI) and Project Director

Train a diverse study body (non-white and first-generation college student families) in the MCH Master's in Public Health (MPH) program to both address a severe workforce shortage specialty and strengthen capacity to address cultural diversity and health equity and to provide MCH graduate and post-graduate MCH training, with a special focus on region 7 (Missouri, Kansas, Nebraska, and Iowa)

COMPLETED RESEARCH

1. Air Pollution and Adverse Pregnancy Outcomes in Wuhan, China 6/2011 – 12/2016
 Health Effects Institute \$306,000
 Wuhan Medical and Health Center for Women and Children \$2,740,000
 Wuhan Environmental Monitoring Center \$300,000
 Role: Principal Investigator
 Evaluated whether high pollution levels of PM_{2.5} and PM₁₀, SO₂, NO₂, O₃, and CO are related to increased occurrence of preterm birth, low birth weight, and intrauterine growth retardation in a population-based cohort of about 100,000 neonates born in Wuhan, China during a two-year period 2011 to 2013
2. Evaluation of Asthma Prescribing Pattern 10/2008 – 05/2010
 Merck \$300,000
 Role: Co-Investigator
 Characterized the Geisinger Asthma population to better understand the nature, control, and severity of asthma.
3. Economic Burden Associated with Preterm Labor in the Geisinger
 Clinic Population 03/2008 – 06/2010
 GlaxoSmithKline \$200,000

- Role: Co-Investigator
Evaluated the economic burden of preterm labors.
4. Framework for Global Health 10/2006 - 12/2009
NIH Fogarty International Center \$250,000
Role: Co-Investigator
Developed a Global Health program based on a multidisciplinary educational framework for addressing African health issues in the context of georesources management, environmental protection, social and cultural identity, and sustainable development
5. Public Health and Air Pollution in Asia Project (PAPA) 07/2006 - 12/2008
Health Effects Institute \$50,000
Role: Principal Investigator in Wuhan City
Determined acute health effects of ambient air pollution on cause-specific mortality in four Asian Cities: Bangkok, Hong Kong, Shanghai, and Wuhan.
6. Ambient Particle Air Pollution and Daily Mortality in Wuhan 07/2004 - 09/2007
Health Effects Institute \$100,000
Wuhan CDC \$350,000
Wuhan Environmental Monitoring Center \$250,000
Role: Principal Investigator
7. Health Effects of Exposure to Ambient Air Pollution Among Asthmatics Treated with an Inhaled Corticosteroid, an Inhaled Long-Acting β -Agonist, or Placebo, Pennsylvania State University College of Medicine 07-2003-06/2005
\$50,000
Role: Principal Investigator
8. Multiple Metabolic Syndrome and the Development of Cardiac and Cerebral Vascular Disease and Mortality 06/2005 – 12/2005
Pfizer, Inc. \$300,000
Role: Co-Investigator
9. NFL Players Save-A-Life Program 07/2003 – 06/2005
The Living Heart Foundation \$50,000
Role: Co-Investigator
10. Epidemiologic Study of Age-related Macular Degeneration, Pfizer, Inc 08/2004 – 10/2005
\$250,000
Role: Co-Investigator
11. Cardiovascular Response to Particulate Air Pollution (RO1) 02/2002 – 04/2004
NIH/NIEHS, 1 RO1 ES10189-01 \$700,000
Role: Co-Investigator
12. Acute Health Effect of Exposure to 9/11 Attacks in NYPD Officers 10/2002 – 03/2003
Living Heart Foundation \$40,000
Role: Co-Investigator
13. Effects of Exposure to Particulate Matter on Respiratory Health in Four Chinese Cities 08/1998 – 07/2002
U.S. and China Environmental Protection Agency (EPA) \$600,000
Role: Co-Investigator
14. Reports of Pilot Study Results and Interim Full-scale Study Results Regarding Health Effects of Outdoor and Indoor Air Pollution in Four Chinese Cities 09/1996 – 12/1997
U.S. EPA \$150,000
Role: Co-Investigator

15. Study for Effects of Long-term Air Pollution on Lung Function and Respiratory Health in Children and Adults in Four Chinese Cities
The U.S. and China EPA
Role: Principal Investigator (Wuhan)
06/1992 – 09/1996
\$380,000
16. Health Effects of Ambient Air Pollution on Urban Residents
China EPA
Role: Co-Investigator
08/1986 – 09/1991
\$65,000

SUBMITTED RESEARCH

1. Health effects of ambient PM_{2.5} species on cardiovascular diseases and molecular mechanisms of the effects
Guangdong Province, China
Role: Co-Investigator
01/2022 – 12/2025
Assessed relative health effects of PM_{2.5} species on cardiovascular diseases and explored the mechanisms of the effects
2. A Prospective Prenatal Cohort Study of Trimester-Specific Multi-metal Exposures, Fetal Growth Trajectories, Birth Outcomes and Child Neurodevelopment
National Institute of Health (NIH) (R01)
Role: Co-Investigator
02/2022 – 01/2025
Evaluated whether prenatal heavy metal exposures adversely affect fetal development, birth outcomes, and neurodevelopment
3. Developed and validated a built environment instrument related to air pollution
NIH R21
Role: Co-Investigator
02/2022 – 01/2025
Identified characteristics of the built environment that place women at increased risk of adverse pregnant outcomes related to ambient air pollutants in Wuhan, a Chinese city with very high but geographically variable air pollution levels.
4. Air pollution, the total environment, and colorectal cancer risk
Grant-maker: Siteman Cancer Center
5. Program: Siteman Investment Program
Role: Co-Investigator
02/202 – 01/2025
Examined if those living in areas with higher ambient PM_{2.5} air pollution are at increased risk of developing CRC and if adverse social and economic neighborhood conditions further enhance this risk.
6. Adapting the JEWEL project for adolescent girls in sub-Saharan Africa
NIH R34
Role: Co-Investigator
02/2022 – 01/2025
Identified the sexual health priorities of in-school adolescent girls in Nigeria, and integrate culturally relevant protective processes, entrepreneurship and asset-building strategies to develop a Jewelry Enterprises for Women Empowering their Lives program in Nigeria