

## **FELICIA WU, PH.D.**

John A. Hannah Distinguished Professor  
University Distinguished Professor  
Department of Food Science and Human Nutrition  
Department of Agricultural, Food, and Resource Economics  
Michigan State University  
East Lansing, MI 48824  
[fwu@msu.edu](mailto:fwu@msu.edu)

### **EDUCATION**

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1998 Harvard University A.B., S.M., Applied Mathematics & Medical Sciences  
2002 Carnegie Mellon University Ph.D., Engineering & Public Policy

### **APPOINTMENTS & POSITIONS**

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2013-present John A. Hannah Distinguished Professor, Department of Food Science and Human Nutrition, Department of Agricultural, Food, and Resource Economics, Michigan State University, East Lansing, MI

- Core Faculty, Institute for Integrative Toxicology
- Adjunct Faculty, Department of Epidemiology and Biostatistics
- Advisory Board, Center for Gender in Global Context
- Affiliate Faculty, Asian-Pacific American Studies Program

2011-2013 Associate Professor, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, PA

- Secondary Faculty, University of Pittsburgh School of Medicine
- Secondary Faculty, Graduate School of Public and International Affairs
- Core Faculty, Center for Research on Health Care
- Secondary Faculty, Center for Bioethics and Health Law
- Faculty Advisory Board, European Union Center for Excellence

2004-2011 Assistant Professor, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, PA

2002-2004 Associate Policy Researcher, RAND, Pittsburgh, PA

### **RESEARCH AND TEACHING**

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Fields Food Safety and Security, Toxicology, Epidemiology, Immunology, Nutrition, Mycotoxins, Agricultural and Food Biotechnology, Global Health and the Environment, Antimicrobial Resistance, Public Health, Climate Change

Methods Quantitative Risk Assessment, Health Economics, Mathematical Modeling, Policy Analysis

## LEADERSHIP, AWARDS, & HONORS

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- Co-Chair, US National Academies of Science, Engineering, and Medicine (NASEM) Committee on the Ethical, Legal, Environmental, Safety, Security, and Societal Issues of Engineering Biology Research and Development, 2025-2026
- Co-Chair, Institute for the Advancement of Food and Nutrition Sciences Symposium, 2025
- Co-Chair, MSU Provost Search Committee, 2024-2025
- Keynote Lecturer, Gordon Research Conference on Mycotoxins & Phycotoxins, 2025
- Invited Participant, Spirit of Asilomar 50<sup>th</sup> Anniversary Meeting on the Future of Biotechnology, 2025
- Top Cited Article author, *Risk Analysis*, 2025
- President, Society for Risk Analysis, 2023-2024
- Presidential Delegate for Carnegie Mellon University: Investiture of Michigan State University (MSU) President Kevin Guskiewicz, 2024
- US White House National Science & Technology Subcommittee, Frontiers of Benefit-Cost Analysis: Non-fatal Health Effects, Invited Participant, 2024
- World Health Organization (WHO) Dietary Guidelines Committee: Risk-Benefit Assessment Technical Group Member, 2024-2026
- US National Academies (NASEM) Invited Speaker: Chemistry and Food: Safety, Authenticity, and Other Challenges of Lab-Grown Foods, 2023
- Member, Joint Expert Committee on Food Additives (JECFA) of the Food and Agriculture Organization of the United Nations (FAO) and World Health Organization (WHO)
- University Distinguished Professor (1 of 10), Michigan State University
- Global Burden of Disease Collaborative Network Invitation: Institute for Health Metrics and Evaluation (IHME)
- WHO Foodborne Disease Burden Epidemiology Reference Group (FERG2) Resource Advisor, 2023-2024
- Commissioner of Agriculture and Rural Development, State of Michigan (appointed by Governor Gretchen Whitmer), 2023-2026
- Excellence in Research Award: Agricultural, Food, & Resource Economics, Michigan State University, 2023
- United Nations FAO Scientific Advisory Committee on Livestock Food Security and Nutrition, Member, 2021-
- WHO Temporary Advisor, 96<sup>th</sup> JECFA on risk assessment of aspartame, 2022-2023
- Featured Alumna, Harvard University Alumnae-i Network of Harvard Women (ANHW) for Women's History Month, 2022
- Hall of Fame Inductee, William Tennent High School Alumni, 2022
- International Union of Pure & Applied Chemistry (IUPAC): US National Academy of Sciences Young Observer, 2021
- US Environmental Protection Agency (EPA) Science Advisory Board (SAB) Panel on Contaminant Candidate List 5, 2021-
- Vice President for University Advancement Search Committee, MSU, 2021
- Fellow, Society for Risk Analysis, 2020-
- William J. Beal Outstanding Faculty Award, Michigan State University, 2020
- Invited Expert Reviewer on Food Security and Land Use, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6), 2018-2019

- Provost Search Committee, Michigan State University, 2019-2020
- Presidential Search Committee, Michigan State University, 2018-2019
- Presidential Transition Committee, Michigan State University, 2019
- Inaugural Food Fellow, Michigan State University Food@MSU, 2017-
- Investiture Awardee, Michigan State University, 2016
- American Public Land-Grant Universities (APLU) Challenge for Change Selected Member, Global Food Security, 2016
- United States National Academy of Sciences: National Research Council (NRC) Committee on Considerations for the Future of Animal Science Research, 2014-2015
- International Life Sciences Institute (ILSI) Food, Nutrition, & Safety Program Scientific Advisor, 2014-2017
- SCOPE-Zhongyu Young Scientist Award on Environmental Issues (1 of 3), 2011
- National Institutes of Health (NIH) EUREKA Award, 2010-2014
- WHO FERG Resource Advisor, Chemicals & Toxins Task Force and Computational Task Force, 2010-2015
- Society for Risk Analysis Councilor, 2009-2012
- James L. Craig Excellence in Education Teaching Award Nominee, University of Pittsburgh Graduate School of Public Health, 2009, 2011
- Sigma Xi (National Science Honor Society) Distinguished Lecturer, 2008-2009
- Visiting Professor, Iowa State University, 2008
- University of Pittsburgh Outstanding Women in Medicine & Science (1 of 7), 2008
- Chauncey Starr Award, Society for Risk Analysis: Outstanding risk analyst under age 40, 2007
- NIH Early Career Award: Multidisciplinary Clinical Research Scholars Program, 2007-2011
- Guest Editor, *Environmental Health Perspectives*: “Developing Policies to Improve Indoor Environmental Quality,” June 2007
- U.S. Department of Agriculture, Aflatoxin Elimination grantee, 2007-2008, 2006-2007
- Competitive Medical Research Fund, University of Pittsburgh, 2006-07
- Delta Omega National Honor Society for Public Health, Inducted Faculty Member, 2006
- Chair of Conference: *Developing Policies to Improve Indoor Environmental Quality: Trans-Atlantic Viewpoints*, 2005
- Society for Risk Analysis Best Paper Award, 2002, 2003
- EPA STAR (Science To Achieve Results) Fellowship, 1999-2002
- ExxonMobil Paper Award in Risk Communication, 2000, 2001
- IIASA (International Institute for Applied Systems Analysis) Young Scientists Summer Program, 2000
- Harvard College Scholar (Dean's List), 1995-98
- Elizabeth Cary Agassiz Merit Award for Academic Excellence, 1995-98
- Jeopardy! Teen Tournament Semi-Finalist, 1994

#### **GRANTS & CONTRACTS FUNDED AS FACULTY MEMBER (CURRENT & PAST)**

2023-2028      Co-Program Director (Co-PD): USDA NIFA, “Building Resilience to Shocks and Disruptions: Creating Sustainable and Equitable Local and Regional Food Systems in the US Midwest Region and Beyond” (\$10 million)

2023-2027 Co-PD: USDA NIFA, “Understanding the Meat Supply Chain Network: The Impact of Supply Disruptions on Food Insecurity and Nutritional Inequality” (\$650,000)

2022-2027 Co-Investigator (Co-I): National Institutes of Health (NIH) National Institute of Mental Health (NIMH) R01, “MISC-CBO: A cluster randomized control trial to improve the mental health of orphaned and vulnerable children in South Africa” (\$1,711,857)

2020-2026 Co-Project Director: USDA NIFA, “Sustainable, Systems-Based Solutions for Ensuring Low-Moisture Food Safety” (\$9.800,000)

2023-2026 Co-PD: USDA NIFA, “How Food Crops Become Contaminated with Heavy Metals: Multivariable Analysis in Climate and Field Conditions” (\$611,000)

2022-2025 Co-I and MSU Team Leader: USAID Food Systems for Nutrition Innovation Lab (Tufts University: lead institution) (\$25,000,000)

2022-2025 Principal Investigator (PI): United States Agency for International Development (USAID) Livestock Systems Innovation Lab, “Aflatoxin M1 Health Risks vs. Benefits of Dairy Consumption in Ethiopian Children: An Epidemiological Trial and Risk-Benefit Analysis” (\$750,000)

2020-2025 Project Director: USDA NIFA, “Aflatoxin Reduced By Bt Corn? Examining Crop Insurance Claims for Real World Impacts of Technologies for Food Safety” (\$478,000)

2023-2024 PI, World Health Organization, “Review and evidence synthesis of data needed to estimate the global burden of aflatoxin B1 and aflatoxin M1” (\$19,000)

2022-2023 PI: Institute for the Advancement of Food and Nutrition Sciences (IAFNS), “Heavy Metals in US Foods: Exposure Assessment by Age Group, and Mitigation Strategies” (\$80,000)

2020-2021 PI: USAID Livestock Systems Innovation Lab, “The Human Health Risk of Aflatoxin M1 in Dairy Products” (\$30,000)

2018-2020 Co-PI: Grand Challenges Canada, “Training caregivers to enhance early child neurodevelopment in the prevention of konzo disease from toxic cassava in Democratic Republic of the Congo” (\$250,000 CD)

2018-2020 PI: Institute for the Advancement of Food and Nutrition Sciences (IAFNS), “Assessing Human Health Impacts of Global Adoption of Codex Deoxynivalenol (DON) Guidelines” (\$50,000)

2018-2019 PI: United States Agency for International Development (USAID) Food Security Policy Innovation Lab, “Occurrence of Aflatoxin M1 in Dairy Products” (\$10,000)

2015-2019 PI: Insect Knowledge Management Program (Bayer/Monsanto), “An Agent-Based Model of Insect Adaptation to Transgenic Insecticidal Corn” (\$299,978)

2013-2018 Co-PD: United States Department of Agriculture (USDA) National Institute for Food and Agriculture (NIFA), “Integrated Management Strategies for Aspergillus and Fusarium Ear Rots of Corn” (\$5,349,650)

2012-2018 Co-PD: USDA NIFA, “Risk Assessment and Intervention Strategies for the Emerging Food Safety Threat of Ochratoxin in the United States” (\$1,500,000)

2013-2018 PI: Bill & Melinda Gates Foundation, “Mycotoxins as a Risk Factor in Growth Impairment Worldwide” (\$750,000)

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| 2010-2016 | PI: National Institutes of Health (NIH) National Cancer Institute, “The Effect of Aflatoxin Regulation on Global Liver Cancer Risk” (R01: \$1,480,096)                                                  |
| 2013-2015 | Co-PD: USDA NIFA, “Prediction and Mitigation of Foodborne Disease Potential of Emerging Trichothecene Mycotoxins” (\$500,000)                                                                           |
| 2008-2012 | Co-PD: USDA Biotechnology Risk Assessment Grant (BRAG), “Mycotoxin Risks Associated with Ethanol Co-Products from Conventional vs. Biotechnology-Derived Corn Grain” (\$400,000)                        |
| 2009-2011 | Co-PI: Bill and Melinda Gates Foundation, “Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value Chains to Improve Market Access of the Poor in Mali and Kenya” (\$2,700,000) |
| 2007-2011 | PI: National Institutes of Health (NIH) Multidisciplinary Clinical Research Scholars Program, “Global Burden of Mycotoxin-Induced Disease and Cost-Effectiveness of Interventions” (KL2: \$669,000)     |
| 2008-2009 | PI: Computational Public Health Initiative, University of Pittsburgh, “Modeling the Effect of Aflatoxin Regulations on Global Liver Cancer Risk and World Food Trade” (\$20,000)                        |
| 2007-2008 | PI: USDA Aflatoxin Elimination Workgroup, “Modeling the Adverse Impact of Aflatoxin Contamination to the Economics of U.S. Agriculture” (\$27,000)                                                      |
| 2006-2007 | PI: USDA Aflatoxin Elimination Workgroup, “Total Economic Impact of Aflatoxin: Models of Economic Loss and Industry Learning” (\$10,000)                                                                |
| 2006-2007 | PI: Competitive Medical Research Fund, “Achieving Healthy Homes for Asthmatic Children Through Educational Interventions” (\$25,000)                                                                    |

### ***Pending grant proposals***

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| 2026-2030 | PD: USDA NIFA Food Safety and Defense, “Arsenic in Rice: Economic and Trade-Related Drivers to Adopt Alternative Cultivation Practices Following FDA Arsenic Action Levels” (\$650,000) |
| 2026-2028 | Co-PD: USDA NIFA Economics, Markets and Trade, “Transparency and Consumer Trust in Food Safety: Market Responses to Lead Contamination and Voluntary Testing Disclosures” (\$300,000)   |
| 2026-2029 | Co-PD: USDA NIFA Diet, Nutrition, and Prevention of Chronic Diseases, “Management of crop metallomes to enhance nutrition and human health” (\$1,000,000)                               |

### **PATENT**

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Compounds for Inhibition of Fungal Mycotoxin and Sporulation (Strasburg GM, Mmongoyo JA, Linz JE, Wu F, Dissanayake AA, Zhang C-R, Wee JM, Nair MG, Day DM). Publication date 14 January 2020. US Patent Number 10531662.

## PUBLICATIONS

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***Journal Articles (H-index = 70; i10-index = 134; Citations: 31,452)***

Scott C, Gamlath C, Wu F (2025). Aflatoxin B1 Exposure in Maize Worldwide: National Level Occurrence and Exposure Assessment. *Trends in Food Science & Technology*, under review.

Gamlath CJ, Hsu P, Pokharel A, Wu F (2025). Estimation of a toxicological reference value for dietary arsenic exposure using bench-mark dose approach, based on prior epidemiological evidence of cardiovascular disease risk. *Food & Chemical Toxicology*, under review.

GBD Collaborators (Wu F, co-author) (2025). Global mortality associated with 85 pathogens, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Updated trends in the global prevalence and burden of mental disorders between 1990 and 2023: An analysis from the Global Burden of Disease Study 2023. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Global burden of meningitis, its risk factors, and aetiologies, 1990–2023: results from the Global Burden of Disease Study 2023. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Burden of Major Depressive Disorder in the United States from 1990 to 2021: Findings from the Global Burden of Disease Study. *Lancet*, revision stage.

Trump BD, Gibson JM, Johnson D, Wu F (2025). What Comes Next? In a Time of Considerable Change, Risk Analysis Is More Important Than Ever. *Risk Analysis*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Global, regional, and national burden and trend of adult musculoskeletal disorders from 1990 to 2021 and the patterns between pre-pandemic and with pandemic of COVID-19 (2020-2021), with projection from 2020 to 2050: a systematic analysis of Global Burden of Disease Study 2021. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). The Burden of Alzheimer’s Disease and Other Dementias among US states, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Global, regional, and national burden of tuberculosis by drug resistance status, 1990-2021, and projections to 2050: a Global Burden of Disease study. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). National and state-level burden of 32 cancer types in the US, 1990-2021, with forecasts to 2050: A systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). The impact of metabolic risk factors on disease burden, mortality, and risk deleted life expectancy worldwide: A systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Global burden of non-alcoholic fatty liver disease, 1990-2021, and projections to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, revision stage.

GBD Collaborators (Wu F, co-author) (2025). Quantifying the fatal and non-fatal burden of disease attributable to child growth failure, 2000–2021: a systematic analysis from the Global Burden of Disease Study 2021. *Lancet*, revision stage.

Liu J, Winkler JA, Ross RB, Vina A, Frank KA, Konar M, Liang C, Marshall MI, Nichols S, Robinson JM, Varshney LR, Whipple JM, Wu F, Beverly B, Knipe D, Knipe R, Kraus J, Naik S, Ripmaster C (2025). Building sustainable and resilient agri-food systems under multiple shocks. *Frontiers in Sustainable Food Systems*, resubmitted.

Hsu P, Wu F, Gamlat C (2025). Unveiling the complex nexus: Evaluating the multifaceted health effects of dietary cadmium exposure through Bradford Hill Criteria. *Critical Reviews in Food Science & Nutrition*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Global child and adolescent health in 204 countries and territories with special focus on the impacts of COVID-19 and conflict and terrorism, 1990–2021. *BMJ*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Global burden of lower respiratory infections and aetiologies, 1990–2023: results from the Global Burden of Disease Study 2023. *Lancet*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Global child and adolescent health scenarios across 204 countries and territories, 2022–2040: a deep learning forecasting analysis for the Global Burden of Disease Study 2021. *BMJ*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Burden of ischemic heart disease attributable to suboptimal diet in 204 countries and territories. *Nature Medicine*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Global, Regional and National Burden of Cardiovascular Diseases and Risk Factors in 204 countries and territories, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023. *JACC*, resubmitted.

GBD Collaborators (Wu F, co-author) (2025). Burden of noncommunicable disease and its attribution to risk factors in Africa from 2010-2021: systematic analysis from Global Burden of Disease, 2021. *Lancet*, resubmitted.

Gamlath C, Wu F (2025). AI and Biotechnology to Combat Aflatoxins: Future Directions for Modern Technologies in Reducing Aflatoxin Risk. *Toxins* 17, 524.  
<https://doi.org/10.3390/toxins17110524>.

GBD Collaborators (Wu F, co-author) (2025). Burden of 375 diseases and injuries, risk-attributable burden of 88 risk factors, and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet*, published online October 12, 2025. [https://doi.org/10.1016/S0140-6736\(25\)01637-X](https://doi.org/10.1016/S0140-6736(25)01637-X).

GBD Collaborators (Wu F, co-author) (2025). Global age-sex-specific all-cause mortality and life expectancy estimates for 204 countries and territories and 660 subnational locations, 1950–2023: a demographic analysis for the Global Burden of Disease Study 2023. *Lancet*, published online October 12, 2025. [https://doi.org/10.1016/S0140-6736\(25\)01330-3](https://doi.org/10.1016/S0140-6736(25)01330-3).

GBD Collaborators (Wu F, co-author) (2025). Global burden of 292 causes of death in 204 countries and territories and 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet*, published online October 12, 2025.  
[https://doi.org/10.1016/S0140-6736\(25\)01917-8](https://doi.org/10.1016/S0140-6736(25)01917-8).

GBD Collaborators (Wu F, co-author) (2025). The global, regional, and national burden of cancer, 1990–2023, with forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet*, published online September 25, 2025. DOI: 10.1016/S0140-6736(25)01635-6.

Hsu P, Scott C, Wu F (2025). Assessing causal relationships between dietary lead exposure and health effects through the Bradford Hill Criteria. *Critical Reviews in Food Science & Nutrition*, 1–24, <https://doi.org/10.1080/10408398.2025.2564892>.

Leslie JF, Ezekiel CN, Wagner M, Elliott C, McNerney O, Uyttendaele M, Wu Y, Wang S, Okoth S, Lindsay J, Rawn DFK, Chan SH, Zhang K, Lattanzio VMT, Wu F, Bandyopadhyay R, Dupouy E, Wearne S, Godfroy S, Suman M, Krska R (2025). Identification and management of emerging food safety hazards and associated risks. *Frontiers in Sustainable Food Systems*, Vol. 9, August 2025. doi: 10.3389/fsufs.2025.1646792.

GBD Collaborators (Wu F, co-author) (2025). Global, regional, and national trends in routine childhood vaccination coverage from 1980 to 2023 with forecasts to 2030: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet*, published online June 24, 2025.  
[https://doi.org/10.1016/S0140-6736\(25\)01037-2](https://doi.org/10.1016/S0140-6736(25)01037-2)

Cox LA, Lowrie K, Aven T, Guikema S, Haas CN, Lambert JH, Maldonado G, Wu F (2025). Can AI help authors prepare better risk science manuscripts? *Risk Analysis*,  
<https://doi.org/10.1111/risa.70055>.

Rahman R, Wu F (2025). Cancer burden from dietary exposure to inorganic arsenic in the United States: Risk assessment and policy implications. *Journal of Food Protection*, 1 May 2025, 100520, <https://doi.org/10.1016/j.jfp.2025.100520>.

GBD Collaborators (Wu F, co-author) (2025). Global, regional, and national burden of household air pollution, 1990-2021: A systematic examination for the Global Burden of Disease study 2021. *Lancet*, [10.1016/S0140-6736\(24\)02840-X](https://doi.org/10.1016/S0140-6736(24)02840-X).

Ye Z, Difonzo C, Hennessy DA, Zhao J, Wu F, Conley SP, Gassmann AJ, Hodgson EW, Jensen B, Knodel JJ, McManus B, Meinke LJ, Michel A, Potter B, Seiter NJ, Smith JL, Spencer JL, Tilmon KJ, Wright RJ, Krupke CH (2025). Too much of a good thing: Lessons from compromised rootworm Bt technology in the US Corn Belt. *Science* 387, 984-9, DOI: [10.1126/science.adm7634](https://doi.org/10.1126/science.adm7634).

Scott C, Wu F (2025). Arsenic content and exposure in brown rice compared to white rice in the United States. *Risk Analysis* 45:2183-96. <https://doi.org/10.1111/risa.70008>.

GBD Collaborators (Wu F, co-author) (2025). Global, regional, and national age-sex-specific burden of diarrhoeal diseases, its risk factors, and aetiologies, 1990-2021, for 204 countries and territories: A systematic analysis for the Global Burden of Disease study 2021. *Lancet Infectious Diseases*, [https://doi.org/10.1016/S1473-3099\(24\)00691-1](https://doi.org/10.1016/S1473-3099(24)00691-1).

GBD Collaborators (Wu F, co-author) (2024). Burden of disease scenarios by state in the USA, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021. *Lancet* 2341-2370.

Saha Turna N, Comstock SS, Gangur V, Chen C, Wu F (2024). Effects of Aflatoxin on the Immune System: Evidence from Human and Animal Research. *Critical Reviews in Food Science and Nutrition* 64:9955-9973.

GBD Collaborators (Wu F, co-author) (2024). The burden of diseases, injuries, and risk factors by state in the USA, 1990-2021: A systematic analysis for the Global Burden of Disease study 2021. *Lancet* 404:2314-2340.

Hsu P, Pokharel A, Scott C, Wu F (2024). Aflatoxin M1 in Milk and Dairy Products: The State of the Evidence for Child Growth Impairment. *Food & Chemical Toxicology* 193:115008, <https://doi.org/10.1016/j.fct.2024.115008>.

GBD 2021 Stroke Risk Factor Collaborators (Wu F, co-author) (2024). Global, regional, and national burden of stroke and its risk factors in 204 countries, 1990-2021: A systematic analysis for the Global Burden of Disease study 2021. *Lancet Neurology* 23:P973-1003.

Scott CK, Wu F (2024). Unintended food safety impacts of the agricultural circular economy: Case studies in arsenic and mycotoxins. *NPJ-Science of Food*, DOI: 10.1038/s41538-024-00293-8.

GBD Collaborators (Wu F, co-author) (2024). Global burden of bacterial antimicrobial resistance 1990-2021: a systematic analysis with forecasts to 2050. *Lancet*, [https://doi.org/10.1016/S0140-6736\(24\)01867-1](https://doi.org/10.1016/S0140-6736(24)01867-1).

Chen H, Anderson NM, Grasso-Kelley EM, Harris LJ, Marks BP, McGowen L, Scharff RL, Subbiah J, Tang J, Wu F, Feng Y (2024). Food safety research and extension needs for the U.S. low-moisture food industry. *Journal of Food Protection* 87:100358. DOI: 10.1016/j.jfp.2024.100358.

Yu J, Hennessy DA, Wu F (2024). Bt corn and cotton planting may benefit peanut growers by reducing aflatoxin risk. *Plant Biotechnology Journal*, DOI: 10.1111/pbi.14425, pp. 1-9.

GBD 2021 Forecasting Collaborators (Wu F, co-author) (2024). Burden of disease scenarios for 204 countries and territories, 2022-2050: a forecasting analysis for the Global Burden of Disease Study. *Lancet* 403:2204-56.

GBD 2021 Risk Factors Collaborators (Wu F, co-author) (2024). Global burden and strength of evidence for 88 risk factors in 204 countries and 811 subnational locations, 1990-2021: A systematic analysis for the Global Burden of Disease Study 2021. *Lancet* 403:2162-203.

Anato A, Headey D, Hirvonen K, Pokharel A, Tessema M, Wu F, Baye K (2024). Feed handling practices, aflatoxin awareness, and children's milk consumption in the Sidama region of southern Ethiopia. *One Health* 18:100672.

GBD 2021 Diseases and Injuries Collaborators (Wu F, co-author) (2024). Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990-2021: A systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, April 17, 2024. [https://doi.org/10.1016/S0140-6736\(24\)00757-8](https://doi.org/10.1016/S0140-6736(24)00757-8).

Chen C, Wu F (2024). Burden of disease of children's cognitive impairment associated with cassava cyanide in Democratic Republic of the Congo. *PLOS Global Public Health*, January 16, 2024, <https://doi.org/10.1371/journal.pgph.0002761>.

Causes of Death Collaborators (Wu F, co-author) (2024). Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990-2021: A systematic analysis for the Global Burden of Disease Study 2021. *Lancet*, [https://doi.org/10.1016/S0140-6736\(24\)00367-2](https://doi.org/10.1016/S0140-6736(24)00367-2).

Wu F, Headey D, Hirvonen K, Pokharel A, Tessema M (2024). Study protocol to assess aflatoxin M1 health risks vs. benefits of dairy consumption in Ethiopian children: An epidemiological trial and risk-benefit analysis. *BMJ Open*, 14:e084257. <http://dx.doi.org/10.1136/bmjopen-2024-084257>.

GBD 2021 Fertility and Forecasting Collaborators (Wu F, co-author) (2024). Global fertility in 204 countries and territories, 1950-2021 with forecasts to 2100: A comprehensive demographic

analysis for the Global Burden of Disease Study 2021. *Lancet* 403, 20 March 2024, [https://doi.org/10.1016/S0140-6736\(24\)00550-6](https://doi.org/10.1016/S0140-6736(24)00550-6).

Pokharel A, Hennessy DA, Wu F (2023). Health burden and costs associated with tillage-related PM2.5 pollution in the United States, and possible tillage reduction strategies. *Science of the Total Environment* 903:166161. <https://doi.org/10.1016/j.scitotenv.2023.166161>

Pokharel A, Wu F (2023). Dietary exposure to cadmium from rice, spinach, and common cereal grains among infants and young children in the United States. *Food & Chemical Toxicology* 178:113873. <https://doi.org/10.1016/j.fct.2023.113873>

Wu F, Trump BD (2023). “Modest doubt is called the beacon of the wise” – Incorporating uncertainty in risk analysis from Shakespeare to Today. *Risk Analysis*, 10.1111/risa.14139. <https://onlinelibrary.wiley.com/doi/epdf/10.1111/risa.14139>

Rahman R, Scharff R, Wu F (2023). Foodborne disease outbreaks in flour and flour-based food products from microbial pathogens in the US, and their economic burden. *Risk Analysis*, DOI: 10.1111/risa.14132.

Wu F (2022). Mycotoxin risks are lower in biotech corn. *Current Opinion in Biotechnology* 78:102792.

Chen C, Patil C, Mduma E, Groopman JD, Riley RT, Wu F (2023). Mycotoxins were not associated with environmental enteropathy in a cohort of Tanzanian children. *Risk Analysis*, 43:860-6. DOI:10.1111/risa.13956.

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Featured in Miller, K (2015). Seafood Lovers, You Might Want to Steer Clear of Eating Those Crabs Right now. *Yahoo! Health*, <https://www.yahoo.com/health/why-you-shouldnt-eat-these-california-crabs-155916637.html>.

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Featured in Koba M (2015). Antibiotics in meat: A public health controversy that isn't going away. *Fortune*, <http://fortune.com/2015/06/03/antibiotics-in-meat-a-public-health-controversy-that-isnt-going-away/>.

Featured in Williams G (2015). How climate change could affect your finances. *US News & World Report*, <http://finance.yahoo.com/news/climate-change-could-affect-finances-160350329.html>

Featured in DiPierro A and Garner M (2015). 10 Recent Food Recalls You Should Know About. *TheStreet*, <http://www.thestreet.com/story/13198305/1/10-recent-food-recalls-you-should-know-about.html>.

Featured in Barnes Z (2015). 8 Things Food-Safety Experts Never Eat. *Women's Health*, <http://www.womenshealthmag.com/nutrition/food-safety-tips>.

US Agency for International Development (USAID) Agrilinks (2015): "Breaking the Mold": [https://www.youtube.com/watch?v=QTh7tAdD\\_kU](https://www.youtube.com/watch?v=QTh7tAdD_kU).

Foodborne Disease: Hazards, Risks, and Values (2013): <https://www.youtube.com/watch?v=sYTcZJ7ao34&feature=youtu.be>.

Davos One Health Forum (2013): <https://www.youtube.com/watch?v=4RVMMf5DSgM>.

## PROFESSIONAL ACTIVITIES AND SERVICE

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### *Expert Consultations/Panels*

|                    |                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Co-Chair           | US National Academies of Science, Engineering, and Medicine (NASEM) Committee on the Ethical, Legal, Environmental, Safety, Security, and Societal Issues of Engineering Biology Research and Development, 2025- |
| Member             | Joint Expert Committee on Food Additives (JECFA) of the Food and Agriculture Organization (FAO), United Nations, and World Health Organization (WHO), 2023-                                                      |
| Member             | WHO Food-Based Dietary Guidelines Committee, Technical Advisory Group on Risk-Benefit Assessment, 2024-                                                                                                          |
| Resource Advisor   | WHO Foodborne Disease Burden Epidemiology Reference Group (FERG) Chemicals & Toxins Task Force, 2021-                                                                                                            |
| Member             | US National Committee (National Academy of Sciences) to the International Union of Pure and Applied Chemistry (IUPAC), 2021-                                                                                     |
| Commissioner       | Michigan Commission of Agriculture and Rural Development (appointed by Governor Gretchen Whitmer), 2023-2026                                                                                                     |
| Co-Chair           | MSU Provost Search Committee, 2024-2025                                                                                                                                                                          |
| Reviewer           | US National Academy of Sciences Report: Safeguarding the Food Supply, 2025                                                                                                                                       |
| Member             | Global Burden of Disease (GBD) Collaborator Network: Institute for Health Metrics and Evaluation (IHME), University of Washington                                                                                |
| Member             | MSU 1855 Faculty Search Committee, Health Economics & Nutrition, 2025                                                                                                                                            |
| Member             | US Environmental Protection Agency (EPA) Science Advisory Board (SAB) Panel on Contaminant Candidate List 5, 2021-22                                                                                             |
| Board of Directors | Harvard Agri-Food Association                                                                                                                                                                                    |
| Board Member       | International Consortium for Applied Bioeconomy Research (ICABR)                                                                                                                                                 |
| Councilor          | Institute for the Advancement of Food & Nutrition Sciences (IAFNS) Scientific Leadership Council                                                                                                                 |
| Member             | MSU William J. Beal Awards Committee                                                                                                                                                                             |
| Member             | MSU-Henry Ford Health Systems Cancer Control Task Force                                                                                                                                                          |
| Expert Reviewer    | Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6). Available at: <a href="https://www.ipcc.ch/report/srccl/">https://www.ipcc.ch/report/srccl/</a> .                                |
| Member             | U.S. National Academies of Science, Engineering, and Medicine: National Research Council Committee on the Future of Animal Sciences Research                                                                     |
| Member             | Joint Food and Agriculture Organization (FAO), United Nations, and World Health Organization (WHO) Expert Meeting on Hazards Associated with Animal Feed                                                         |
| Scientific Advisor | International Life Sciences Institute (ILSI) Food, Nutrition, & Safety Program                                                                                                                                   |
| Panel Member       | International Agency for Research on Cancer (IARC) Aflatoxin Control Measures: A Basis for Improved Health in Developing Countries                                                                               |

|              |                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------|
| Member       | WHO FERG Computational Task Force                                                                         |
| Reviewer     | Harvard Center for Risk Analysis, Risk Perception Conference                                              |
| Panel Member | International Life Sciences Institute (ILSI), Environmental Risk Assessment of Genetically Modified Crops |
| Panel Member | Carnegie Mellon University, Engineering & Public Policy, Air Toxics & Environmental Justice               |

### ***Editorial Boards***

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Editorial Board     | <i>Nature – Scientific Reports</i> (2021-present)                         |
| Area Editor, Health | <i>Risk Analysis</i> (2012-present)                                       |
| Consulting Editor   | <i>Archives of Environmental and Occupational Health</i> (2007-present)   |
| Area Editor         | <i>World Mycotoxin Journal</i> (2008-present)                             |
| Editorial Board     | <i>Risk Analysis</i> (2008-2011)                                          |
| Guest Editor        | <i>Environmental Health Perspectives</i> (indoor air mini-monograph 2007) |
| Ad-hoc Reviewer for | <i>Science, Nature</i> , and over 30 other journals                       |

### ***Proposal Review Panels***

|                 |                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel Member    | U.S. National Institutes of Health, Special Emphasis Panels (systems modeling and international non-communicable diseases) and NIEHS conference grants |
| Panel Member    | U.S. Department of Defense, Congressionally Directed Medical Research Programs (CDMRP)                                                                 |
| Panel Member    | USDA Improving Food Safety                                                                                                                             |
| Panel Member    | U.S. Department of Agriculture, Agricultural Research Service (ARS)                                                                                    |
| Panel Member    | U.S. Environmental Protection Agency, Cumulative Risk Assessment                                                                                       |
| Panel Member    | National Science Foundation, Human and Social Dynamics Program                                                                                         |
| Panel Member    | U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service (CSREES)                                                  |
| Ad-hoc Reviewer | National Science Foundation, Decision, Risk & Management Sciences                                                                                      |

### ***Service in Other Professional and University Organizations***

|           |                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Co-Chair  | MSU Provost Search Committee                                                                                                                                  |
| Member    | MSU Food Security Group Strategic Planning Committee, Research                                                                                                |
| Member    | Presidential Transition Committee, Michigan State University                                                                                                  |
| Member    | Presidential Search Committee, MSU                                                                                                                            |
| Member    | Vice President for University Advancement Search Committee, MSU                                                                                               |
| Member    | Society for Risk Analysis Awards Committee                                                                                                                    |
| Member    | Food Microbiology Search Committee, Department of Food Science and Human Nutrition, Michigan State University – <i>Diversity, Equity, and Inclusion Chair</i> |
| Co-Chair  | Grantwriting Brownbag Seminar Series, Food Science and Human Nutrition, Michigan State University                                                             |
| Member    | Agricultural, Food, & Resource Economics Search Committee on Agricultural and Food Policy                                                                     |
| Councilor | Society for Risk Analysis                                                                                                                                     |
| Chair     | Communications Committee, Society for Risk Analysis                                                                                                           |

|         |                                                                                                                                   |
|---------|-----------------------------------------------------------------------------------------------------------------------------------|
| Chair   | Biological Stressors Specialty Group, Society for Risk Analysis                                                                   |
| Chair   | Risk Communication Specialty Group, Society for Risk Analysis                                                                     |
| Advisor | Center for Gender in Global Context, Michigan State University                                                                    |
| Member  | Department Chair Search Committee, Food Science and Human Nutrition, Michigan State University                                    |
| Member  | Seminar Committee, Department of Food Science and Human Nutrition, Michigan State University                                      |
| Member  | Faculty Search Committee (Chair), International Nutrition, MSU                                                                    |
| Member  | Faculty Search Committee, Antimicrobial Resistance, MSU                                                                           |
| Member  | Faculty Search Committee, Food and Health, Biosystems & Agricultural Engineering, Michigan State University                       |
| Member  | Faculty Search Committee, Department of Environmental and Occupational Health, University of Pittsburgh                           |
| Member  | Faculty Search Committee, Public Health Dynamics Laboratory, University of Pittsburgh                                             |
| Member  | Faculty Search Committee, Children's Hospital of Pittsburgh Pediatric Environmental Medicine, University of Pittsburgh            |
| Member  | Faculty Diversity Committee, Graduate School of Public Health, University of Pittsburgh                                           |
| Member  | Multidisciplinary Master of Public Health (MMPH) Organizing Committee, Graduate School of Public Health, University of Pittsburgh |
| Juror   | Dean's Day (Student Research), Graduate School of Public Health, University of Pittsburgh                                         |

### ***Professional Memberships***

Society for Risk Analysis (SRA)

Society of Toxicology (SOT)

### ***Mentoring Junior Faculty (formal), Michigan State University***

Teresa Bergholz

Courtney Carignan

Elizabeth Gardner

Ilce Medina-Meza

Jade Mitchell

David Ortega

Rita Strakovsky

Robin Tucker

## **INVITED LECTURES**

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Keynote Speaker: Gordon Research Conference for Mycotoxins and Phycotoxins, Easton, MA, 2025

Keynote Speaker: Society for Risk Analysis-Australia/New Zealand, Melbourne, Australia, 2025  
USAID Food Safety Conference, Addis Ababa, Ethiopia, 2024

Taiwan Society for Risk Analysis (Keynote Speaker), Taipei Medical University, 2024

National Taiwan University, Taipei, Taiwan, 2024

Taiwan Food and Drug Administration, Taipei, Taiwan, 2024

Taiwan Ministry of Agriculture, Taichung, Taiwan, 2024  
 Amazon.com, Inc.: Chats about Emerging Chemical Risks, 2024  
 Pathways Toward the Safe and Effective Deployment of Engineered Microbial Technologies,  
 California Institute of Technology (Caltech), 2024  
 International Association for Food Protection Annual Meeting, Long Beach, CA 2024  
 Institute for the Advancement of Food and Nutrition Sciences Summer Symposium, Washington,  
 DC 2024  
 USDA NC1183 Annual Meeting: Mycotoxins in a Changing World, 2024  
 University of Stavanger, Norway, Risk Management and Societal Safety Seminar, 2024  
 USAID Livestock Systems Innovation Lab Annual General Meeting, Gainesville FL, 2024  
 MSU College of Agriculture & Natural Resources, Women's Empowerment Panel, 2024  
 US National Academies of Science, Engineering, and Medicine (NASEM) Chemistry and Food:  
 Safety, Authenticity, and Other Challenges, 2023  
 Keynote Speaker: Innovation Platform Meeting, USAID Livestock Systems Innovation Lab,  
 Addis Ababa, Ethiopia, 2023  
 Featured Speaker: Ethiopian Public Health Institute Seminar, Addis Ababa, Ethiopia, 2023  
 Plenary Speaker: Society for Risk Analysis Annual Meeting, Washington DC 2023  
 USAID Food Systems for Nutrition Innovation Lab, Boston, MA 2023  
 International Association for Food Protection, Toronto, Canada, 2023  
 Institute for the Advancement of Food and Nutrition Sciences, Washington, DC 2023  
 USDA NC1183 Meeting: Mycotoxins in a Changing World, Iowa State University, 2023  
 Symposium Chair: AI in Agriculture. Future of Food Forum, Gainesville, FL, 2023  
 Keynote Speaker: Linkages Across Cumulative Risk, Environmental Justice, and Climate  
 Change. Society for Risk Analysis Annual Meeting, 2022  
 USAID Livestock Systems Innovation Lab, Aflatoxin M1 in Milk Webinar, 2022  
 USDA Foreign Agricultural Service Scientific Panel: Chemical Testing in Food and Agriculture  
 Products, 2022  
 American College of Medical Toxicology, 2022  
 American Phytopathological Society, 2022  
 International Consortium on Applied Bioeconomy Research, 2022  
 Institute for the Advancement of Food and Nutrition Sciences (IAFNS) Annual Meeting, 2022  
 Corn Refiners Association, 2022  
 University of Florida Food Systems Institute, 2022  
 USAID Bureau for Humanitarian Assistance: Dialogue on Research and Innovation for Future  
 Food Assistance, 2021  
 International Union of Pure and Applied Chemistry (IUPAC) Congress, 2021  
 Institute of Food Technologists, 2021  
 Henry Ford Health System-MSU Building Partnerships in Cancer Research, 2021  
 USAID Global Nutrition Coordination Plan Webinar on Food Safety and First 1000 Days, 2021  
 University of California-Davis, Global Nutrition Seminar, 2021  
 MSU IQ Brews & Views: From Gold to Weevil: Exploring the Science & Ethics of GMOs, 2021  
 Our Table: Climate Change and Food Security. Michigan State University, 2021  
 Entomological Society of America, 2020  
 US Environmental Protection Agency, Biopesticides & Pollution Prevention Division, 2020  
 Society for Risk Analysis COVID-19 Webinar on Food Safety & Food Security, 2020  
 Risk Analysis Panel Webinar, Engineering and Public Policy, Carnegie Mellon University, 2020

Closing Bell: A Conversation with MSU Agricultural Economists, 2020  
 Bug Talk: Entomology Podcast, 2020  
 Spartan Fireside, MSU (COVID-19, Food Safety): May 4, 2020  
 Plenary Lecturer, MycoKey Conference, Bari, Italy 2020 (postponed)  
 Risk Analysis Lecture, University of Stavanger, Norway 2020 (postponed)  
 Global Nutrition and Livestock Systems, Capitol Hill, Washington, DC 2019  
 Mars-Wrigley Co. Aflatoxins Mitigation Workshop, Chicago, IL 2019  
 Robert F. Leader Lecture, Michigan State University, 2019  
 Toxicology Seminar Series Lecture, Iowa State University, 2019  
 Great Lakes Crop Summit, Mount Pleasant, MI, 2019  
 Michigan Academy of Nutrition and Dietetics, 2018  
 Food Research Institute Symposium, University of Wisconsin, 2018  
 Innovation in Agrifood Supply Chains, University of California-Berkeley, 2018  
 World Food Center, University of California-Davis, 2018  
 Plenary Speaker, Visiting International Professional Program, MSU, 2017  
 Cold Spring Harbor Laboratory, Banbury Conference on Opportunities for Reduction of  
 Aflatoxin Contamination in Food, NY, 2017  
 USAID Livestock Systems Innovation Laboratory Symposium: Nurturing Development,  
 Gainesville, FL 2017  
 International Life Sciences Institute (ILSI) Annual Meeting, San Diego, CA, 2017  
 Sustainable Intensification of Agriculture International Workshop, MSU, 2016  
 Dairy Council Practices Annual Conference (Antibiotic Resistance), 2016  
 Center for Research on Ingredient Safety Conference, East Lansing, MI 2016  
 International Food Safety Workshop, Michigan State University, 2016  
 World Mycotoxin Forum and International Union on Pure & Applied Chemistry (WMF meets  
 IUPAC), Winnipeg, Canada, 2016  
 Workshop on the Field and Science of Risk Analysis, Ann Arbor, MI, 2016  
 Fate of the Earth (Plenary Speaker), Michigan State University, 2016  
 USAID AgriLinks Webinar “Breaking the Mold” (Featured Speaker), 2015  
 International Life Sciences Institute (ILSI) Annual Meeting, Washington, DC, 2015  
 W.K. Kellogg Biological Station Research Seminar, Michigan State University, 2015  
 USAID Bureau for Food Security: Agricultural Policy for Maternal and Child Health  
 Roundtable, 2014  
 Antibiotic Resistance and the Agriculture-Health Linkage, Office of the Vice President for  
 Research and Graduate Studies Roundtable (OVPRGS), Michigan State University, 2014  
 Plant Biotechnology for Health and Sustainability 3<sup>rd</sup> Annual Symposium, MSU, 2014  
 Center for Integrative Toxicology, Michigan State University, 2014  
 ILSI Role and Use of Nutritional Studies in Evaluating the Safety of a Food or Ingredient, 2014  
 International Agency for Research on Cancer (IARC) (Plenary Lecture), Aflatoxin Control  
 Measures: A Basis for Improved Health in Developing Countries, 2014  
 American Association of Cereal Chemists International (AACCI), Providence, RI, 2014  
 USDA Foreign Agricultural Service: International Agricultural Biotechnology Group panelist,  
 Michigan State University, 2014  
 Biotechnology Regulation Immersion Course, University of Missouri, 2014  
 Global Risk Forum One Health Summit (Keynote Lecture), Davos, Switzerland, 2013  
 Toxicology Forum-Risk Governance Initiative (Keynote Lecture), Ottawa, Canada, 2013

Aflatoxin Symposium, Center in Molecular Toxicology, Vanderbilt University, 2013  
 Summer Academy in Global Food Law & Policy, Granada, Spain, 2013  
 MycoRed Europe Conference, Martina Franca, Italy, 2013  
 International Aflatoxin-in-Maize Working Group: Global Solutions for Worldwide Problems  
 (Keynote Lecture), USAID/USDA, New Orleans, LA, 2013  
 Mycotoxins: Triple Threat to African Development, Washington, DC, 2013  
 The Role of Academic Medical Centers in Addressing Health Disparities Conference (Spotlight  
 Lecture), Pittsburgh, 2012  
 World Nutrition Forum (Keynote Lecture), Singapore, 2012  
 MycoRed North America Conference (Keynote Lecture), Ottawa, Canada, 2012  
 Impact of Mycotoxins on Gut Function & Stunting, Bill & Melinda Gates Foundation, 2012  
 Conference on Food Security, Purdue University, 2012  
 International Workshop on Socio-Economic Impacts of Genetically Modified Crops, Seville,  
 Spain, 2011  
 Nutrition Seminar Series, Johns Hopkins Bloomberg School of Public Health, 2011  
 Infectious Diseases Series, University of Pittsburgh Graduate School of Public Health, 2011  
 MycoRed Africa Conference, Cape Town, South Africa, 2011  
 Society of Toxicology, 2011  
 World Health Organization (WHO) Foodborne Disease Burden Epidemiology Reference Group  
 and Stakeholders Meeting, Geneva, Switzerland, 2010  
 Michigan State University, Distinguished Scholars in Toxicology Lecture Series, 2010  
 World Nutrition Forum (Keynote Lecture), Salzburg, Austria, 2010  
 World Health Organization (WHO) Foodborne Disease Burden Epidemiology Reference Group,  
 Tunis, Tunisia, 2010  
 Science 2010, University of Pittsburgh, 2010  
 Global Health Research Development Seminar, University of Pittsburgh, 2010  
 Gordon Research Conference on Mycotoxins and Phycotoxins, 2009, 2007, 2005, 2003  
 International Agency for Research on Cancer (IARC), Lyon, France, 2009  
 Kenya Stakeholders' Inception Workshop on Aflatoxin Reduction, Nairobi, Kenya, 2009  
 International Society for Mycotoxicology, Vienna, Austria, 2009  
 Brookings Institution, 2009  
 Food for Thought Distinguished Lecture Series, Oregon State University, 2009  
 Sigma Xi Distinguished Lecture – Environmental and Health Impacts of Transgenic Crops,  
 Indiana University of Pennsylvania, 2009  
 Sigma Xi Distinguished Lecture: Aflatoxin - Reducing Health Risks Through Public Health  
 Interventions, US Department of Agriculture (USDA), 2009  
 Sigma Xi Distinguished Lecture: Ethanol and the Environment, Iowa State University, 2008  
 Sigma Xi Distinguished Lecture: Ethanol and the Environment, University of Nebraska 2008  
 World Mycotoxin Forum (Plenary Lecture), 2008, 2006, 2005  
 United Nations Convention on Biological Diversity 4<sup>th</sup> Meeting of the Parties (MOP4), 2008  
 Senior Vice Chancellor's Research Seminar, University of Pittsburgh, 2008  
 National *Fusarium* Head Blight Forum (Plenary Lecture), 2007  
 USDA Aflatoxin Elimination Workshop, 2007, 2006  
 Pioneer Hi-Bred International, Inc., 2007  
 Monsanto Company, 2007  
 Department of Energy, Energy Codes 2007

US/EU Trans-Atlantic Conference: REACH, 2007  
 USDA / North American Millers Association, Corn Dry Milling Conference, 2007  
 USDA APHIS Biotechnology Regulatory Services Seminar, 2007  
 Biosafety Institute for Genetically Modified Agricultural Products (BIGMAP) Symposium, Iowa State University, 2007  
 Engineering Sustainability: Mascaro Sustainability Initiative, University of Pittsburgh, 2007  
 Canadian Institute of Food Science & Technology Conference (Plenary Lecture), 2006  
 Audubon Society, GMO Food Safety & the Environment, 2006  
 University of Pittsburgh Board of Trustees Meeting, 2006  
 Dutch Ministry of Housing Seminar, 2005  
 4<sup>th</sup> Canadian *Fusarium* Head Blight Workshop (Keynote Lecture), 2005  
 Canada Mortgage and Housing Corporation Seminar, 2005  
 Agricultural, Food, and Resource Economics Seminar, Rutgers University, 2005  
 Agricultural and Resource Economics Seminar, University of California / Berkeley, 2005  
 Plant Sciences Seminar, University of California / Davis, 2005  
 International Workshop on Health Implications of Fungi in Indoor Environments, 2005  
 USDA Economics of Agricultural Biotechnology Regulation Workshop, 2005  
 Harvard Workshop on Agricultural Biotechnology for Human Development, 2005  
 XI International Union of Pure & Applied Chemistry (IUPAC) Symposium on Mycotoxins and Phycotoxins (Plenary Lecture), 2004  
 Toxicology Forum, 2003  
 World Congress on Risk, 2003

## STUDENTS AND POSTDOCTORAL FELLOWS, CURRENT AND PAST

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### *Advisor, graduated PhD Students*

Nikita Saha Turna (2021): Mycotoxin risk assessment in Nigeria. Hiram E. Fitzgerald Engaged Scholar Award, Society of Toxicology Student Award, P. Vincent Hegarty Award, Rachel Schemmel Award.  
 Jina Yu (2019): Impact of Bt corn on aflatoxin levels in US corn – Winner of Best Dissertation Award 2019, Department of Agricultural, Food, & Resource Economics  
 Jongwoo Kim (2019): Sustainable intensification of maize production in Tanzania  
 Denis Male (2017): Dietary diversity to reduce exposure to foodborne toxins in Africa  
 Juma Mmongoyo (2016): Aflatoxin in Tanzanian sunflower seeds and cakes, and botanicals to reduce *Aspergillus* growth and aflatoxin accumulation  
 Shaina Stacy (2015): Impacts of hydraulic fracturing on local population health  
 Erin Bilsten (2013): Mycotoxins in ethanol co-products from transgenic vs. conventional corn  
 Travis Bui-Klimke (2013): Health and economic implications of mycotoxin regulations worldwide (Keleti Environmental Health Award 2013)  
 Pornsri Khlangwiset (2011): Cost-effectiveness of aflatoxin interventions in Africa (Keleti Environmental Health Award 2010, Delta Omega Thesis Award 2007)  
 Yan Liu (2011): Global burden of aflatoxin-induced diseases (Rosenkranz Public Health Significance Award 2010; Student Merit Award, Society for Risk Analysis 2009)  
 Tianxiu Wang (2016): Risk assessment of aristolochic acid

### *Advisor, Graduated MS Students*

Vivian Chiang (2021): Vip-containing Bt Corn and Aflatoxin Reduction in Southern US States

***Primary Advisor, PhD, MS, and MPH Students***

Thomas Biksey: Environmental health impacts of alternative fuel sources

Pin-Yi Hsu: Aflatoxin M1 and other contaminants of milk and dairy products

Ashish Pokharel: PM2.5 from agricultural tilling, and human health effects

Rubait Rahman: Low-moisture food systems – cost of illness of foodborne outbreaks in US

Ziwei Ye: Total social welfare effects of transgenic crops and agricultural inputs. Best PhD Presentation (AFRE 2020).

***Postdoctoral Research Fellows and Research Assistant Professors***

Chen Chen: Risk assessment of antimicrobial resistance from animal agriculture

Nicole Mitchell: Aflatoxin exposure and child growth impairment

***PhD/MS/MPH Committee Member***

Saud Almatairi: Risk ranking of different contaminants in apples and apple products

Jennifer Boekeloo: Comparison of health care plans

Rahul Dhar: Urbanization and obesity: global trends and “bending the curve”

Amber Goguen: Ecosystem services produced by recreational hunting

Ying Guo: PFAS in food and environmental systems

Kelsey Hopkins: Halal meat and food fraud risks

Jongwoo Kim: Sustainable intensification of legume production on agriculture and health

Maria Kloboves: Maternal exposures to phthalates and impacts to infant health

Yawei Lin: Salmonella control in foods

George W. Mitchell: Adolescent behavioral health

Juma Mmongoyo: Oilseed nutritional and toxin composition in Tanzania

Kelsi Morris: Maternal/child exposures to environmental chemicals

Diana Pacyga: Impact of maternal exposures on infant obesity and other health risks

Charuta Parkhi: Antibiotics in Nigerian poultry farming

Kristen E. Sonon: Mental health in nursing homes

Shen Tian: Incorporation of human health risk assessment into life cycle assessment

Maxine Wright Walters: Health disparities in pediatric asthma

Ruoxi Xia: Economic impact of efforts to reduce *Fusarium* head blight in Canadian wheat

Shuting Yang: Effects of over-stratification in survival analyses

So-Jung Youn: The role of fisheries in global food security

***Advisor, Undergraduate Students***

Miles Kaltenbach: Life cycle assessment of water use and water quality from ethanol production from corn vs. switchgrass

Zachary Mehal: Economic impacts of transgenic Bt maize in United States and South Africa

**COURSES TAUGHT, PAST AND PRESENT**

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***Michigan State University***

FSC 844 (Primary Instructor): Risk Assessment of Foodborne Chemicals and Toxins

FSC 891 (Primary Instructor): Food and Environmental Risk Assessment

FSC 890 (Primary Instructor): Concepts in Agricultural Health

FSC 807 (Guest Lecturer, P.I. James Pestka): Food Toxicology  
HNF 823 (Guest Lecturer, P.I. Sharon Hoerr): Research Methods in Human Nutrition  
CEP 991B (Guest Lecturer, P.I. Kenneth Frank): Social Networks  
SCM 303 (Guest Lecturer, P.I. John Spink): Introduction to Supply Chain Management  
Coca-Cola Webinar on Food Safety Risk Assessment

### ***University of Pittsburgh***

EOH 2180: Introduction to Risk Sciences (James L. Craig Teaching Award nomination)  
EOH 2181: Environmental Risk Assessment Practicum (Craig Teaching Award nomination)  
EOH 2513: Critical Issues in Bioterrorism  
PUBHL 2009: Critical Issues in Global Health

## **PAST POSITIONS**

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U.S. Environmental Protection Agency, National Center for Environmental Economics (NCEE)  
and Biopesticides & Pollution Prevention Division (BPPD), Research Fellow, 2001  
International Institute of Applied Systems Analysis, Young Scientist Program, 2000  
Harvard Medical School – Brigham & Women's Hospital Circadian & Neuroendocrine  
Disorders Division, Research Assistant, 1996-1998  
Sandia National Laboratories (Applied and Numerical Mathematics Division; Computational  
Biology Division), Summer Intern, 1995-1997

## **CITIZENSHIP AND OTHER ACTIVITIES**

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### **Citizenship: USA**

- Co-President, Alumnae-i Network for Harvard Women (ANHW) Michigan
- Board of Directors, Harvard Agri-Food
- Black belt (2<sup>nd</sup> Dan) in Taekwondo
- 2017 USA Taekwondo National Championships: 11<sup>th</sup> of 28 poomsae competitors in Women's 40+ Division
- Michigan State University Choral Union
- Donor and Member, MSU Choral Society
- Violin I with Edgewood Symphony Orchestra and The Uncommon Quartet, 2011-2013
- 2013 performance in WQED Pittsburgh 40<sup>th</sup> Anniversary Celebration:  
<https://www.youtube.com/watch?v=bNQJuVzEXZ8>
- Violin II with Pittsburgh Symphony Orchestra Community Side-By-Side Concert, 2012