

FELICIA WU, PH.D.

John A. Hannah Distinguished Professor
Department of Food Science and Human Nutrition
Department of Agricultural, Food, and Resource Economics
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East Lansing, MI 48824
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EDUCATION

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

APPOINTMENTS & POSITIONS

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

- Director, Center for Health Impacts of Agriculture (CHIA)
- Core Faculty, Center for Integrative Toxicology
- Core Faculty, International Institute of Health
- Advisor and Core Faculty, Center for Gender in Global Context

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

2008 Visiting Professor, Seed Science Center, Iowa State University, Ames, IA

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

RESEARCH AND TEACHING

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

Methods Mathematical Modeling, Quantitative Risk Assessment, Risk Management, Risk Communication, Economics, Policy Analysis

AWARDS & HONORS

- Invited Expert Reviewer, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6), 2019

- MSU Presidential Search Committee, 2018-present
- 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
- World Health Organization (WHO) Foodborne Disease Burden Epidemiology Reference Group (FERG) Member, Computational Task Force, 2012-current
- Joint Expert Committee on Food Additives (JECFA) of the Food and Agriculture Organization (FAO) and World Health Organization (WHO) of the United Nations, Expert Roster, 2011-current
- 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, 2010-current
- 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 age 40 or under, 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 FUNDED AS FACULTY MEMBER (CURRENT AND PAST)

2018-2020 Co-Principal Investigator: 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 Principal Investigator: International Life Sciences Institute (ILSI), “Assessing Human Health Impacts of Global Adoption of Codex Deoxynivalenol (DON) Guidelines” (\$70,000)
- 2015-2019 Principal Investigator: Insect Knowledge Management Program (Monsanto), “An Agent-Based Model of Insect Adaptation to Transgenic Insecticidal Corn” (\$299,978)
- 2013-2018 Co-Project Director: United States Department of Agriculture (USDA) Agriculture & Food Research Initiative (AFRI), “Integrated Management Strategies for Aspergillus and Fusarium Ear Rots of Corn” (\$5,349,650)
- 2012-2018 Co-Project Director: USDA AFRI, “Risk Assessment and Intervention Strategies for the Emerging Food Safety Threat of Ochratoxin in the United States” (\$1,500,000)
- 2013-2018 Principal Investigator: Bill & Melinda Gates Foundation, “Mycotoxins as a Risk Factor in Growth Impairment Worldwide” (\$750,000)
- 2010-2016 Principal Investigator: 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-Project Director: USDA AFRI, “Prediction and Mitigation of Foodborne Disease Potential of Emerging Trichothecene Mycotoxins” (\$500,000)
- 2008-2012 Co-Project Director: 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-Principal Investigator: 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 Africa” (\$2,700,000)
- 2007-2011 NIH Early Career Awardee: 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 Principal Investigator: 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 Principal Investigator: USDA Aflatoxin Elimination Workgroup, “Modeling the Adverse Impact of Aflatoxin Contamination to the Economics of U.S. Agriculture” (\$27,000)
- 2006-2007 Principal Investigator: USDA Aflatoxin Elimination Workgroup, “Total Economic Impact of Aflatoxin: Models of Economic Loss and Industry Learning” (\$10,000)

2006-2007 Principal Investigator: Competitive Medical Research Fund,
“Achieving Healthy Homes for Asthmatic Children Through
Educational Interventions” (\$25,000)

GRANTS PENDING

- PI: “Aflatoxin Reduced by Bt Corn? Examining Crop Insurance Claims for Real World Impacts of Technologies for Food Safety,” USDA
- Co-PI: “Integrating Interdisciplinary Systems Analysis and Design into Graduate Research and Education at the Food-Energy-Water Nexus,” National Science Foundation
- Co-PI: “Comprehensive Evaluation of the Bag-In-Box Brining Technology to Divert Fruit and Vegetables Wastes to High-Value Food Resources,” USDA

SCIENTIFIC ALLIANCES

2009-2013 MycoRed: Novel Integrated Strategies for Worldwide Mycotoxin Reduction in Food and Feed Chains. European Commission

CONTRACTS

2012-13 World Health Organization (WHO) Foodborne Disease Burden Epidemiology Reference Group (FERG): Estimating global burden of human disease caused by foodborne arsenic

2010 WHO FERG: Estimating global burden of human disease caused by foodborne aflatoxin

INVITED LECTURES AND SESSION CHAIRS

Great Lakes Crop Summit, Mount Pleasant, MI, 2019

Michigan Academy of Nutrition and Dietetics, 2018

Ohio State University Department of Plant Pathology, 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

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, Michigan State University, 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) Food, Nutrition, & Safety Program 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 3rd Annual Symposium, Michigan State University, 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) Annual Meeting, 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 4th 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
Monsanto Company, 2007
Pioneer Hi-Bred International, Inc., 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
4th 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

PATENT

Provisional: “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). US Application Serial No. 62/443,998.

PROFESSIONAL ACTIVITIES AND SERVICE

Expert Consultations/Panels

Reviewer	Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6)
Member	U.S. National Academies: 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
Scientific Advisor Expert Roster	Center for Science in the Public Interest (CSPI) Biotechnology Joint Expert Committee on Food Additives (JECFA) of the Food and Agriculture Organization (FAO), United Nations, and World Health Organization (WHO)
Panel Member	International Agency for Research on Cancer (IARC) Aflatoxin Control Measures: A Basis for Improved Health in Developing Countries
Resource Advisor	WHO Foodborne Disease Burden Epidemiology Reference Group (FERG) Chemicals & Toxins Task Force
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

Area Editor, Health	<i>Risk Analysis</i> (2012-present)
Consulting Editor	<i>Archives of Environmental and Occupational Health</i> (2007-present)
Editorial Board	<i>Risk Analysis</i> (2008-2011)
Area Editor	<i>World Mycotoxin Journal</i> (2008-present)
Guest Editor	<i>Environmental Health Perspectives</i> (indoor air mini-monograph 2007)
Ad-hoc Reviewer	<i>Science</i> <i>American Journal of Respiratory & Critical Care Medicine</i> <i>BioMed Central Medical Informatics and Decision Making</i> <i>BMC Public Health</i>

British Medical Journal, Public Health
Bulletin of the World Health Organization (WHO)
Chemical Research in Toxicology
Critical Reviews in Food Science and Nutrition
Critical Reviews in Toxicology
Environmental Entomology
Environmental Health Perspectives
Environmental Science & Technology
Food Additives and Contaminants
Food & Chemical Toxicology
International Journal of Cancer
Journal of Agricultural and Food Chemistry
Journal of Food Safety
Phytopathologia Mediterranea
PLoS Biology
Public Health Reports
Reproductive Toxicology
Risk Analysis
Toxicological Sciences
Toxin Reviews
Toxins
World Mycotoxin Journal

Proposal Review Panels

Panel Member	U.S. Department of Defense, Congressionally Directed Medical Research Programs (CDMRP)
Panel Member	USDA Improving Food Safety
Panel Member	U.S. National Institutes of Health, Special Emphasis Panel (systems modeling) and NIEHS conference grants
Panel Member	Corn Rootworm (CRW) Knowledge Research Program, Monsanto Co.
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

Scientific Advisor	Center for Science in the Public Interest (CSPI), Biotechnology
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 Advisory Committee, Department of Food Science and Human Nutrition, Michigan State University

Co-Chair	Grantwriting Brownbag Seminar Series, Food Science and Human Nutrition, 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, Michigan State University
Member	Faculty Search Committee, Antimicrobial Resistance, Michigan State University
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

American Association for the Advancement of Science (AAAS)
 Society for Risk Analysis (SRA)
 Society of Toxicology (SOT)

Mentoring Junior Faculty (formal), Michigan State University

Courtney Carignan
 Elizabeth Gardner
 Rita Strakovsky
 Robin Tucker

STUDENTS AND POSTDOCTORAL FELLOWS, CURRENT AND PAST

Advisor, graduated PhD Students

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 made 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; winner of 2007 Dean's Day Award in MPH category)
Tianxiu Wang (2016): Risk assessment of aristolochic acid

Primary Advisor, PhD and DrPH Students

Thomas Biksey: Environmental health impacts of alternative fuel sources
Zeying Huang: Health economics of environmental chemical exposures
Nikita Saha Turna: Mycotoxin risk assessment in the US
Ziwei Ye: Integrated sustainable agricultural and water systems for the State of Michigan
Jina Yu: Impact of Bt corn on aflatoxin levels in US corn

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 Committee Member

Saud Almatairi: Risk ranking of different contaminants in apples and apple products
Amber Goguen: Ecosystem services produced by recreational hunting
Jongwoo Kim: Sustainable intensification of legume production on agriculture and health
Juma Mmongoyo: Oilseed nutritional and toxin composition in Tanzania
Shen Tian: Incorporation of human health risk assessment into life cycle assessment
Ruoxi Xia: Economic impact of efforts to reduce *Fusarium* head blight in Canadian wheat
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

Thesis Committee Member

Jennifer Boekeloo, MHA: Comparison of health care plans
George W. Mitchell, MHA: Adolescent behavioral health
Kristen E. Sonon, MHA: Mental health in nursing homes
Maxine Wright Walters, DrPH: Health disparities in pediatric asthma
Shuting Yang, MPH: Effects of over-stratification in survival analyses

COURSES TAUGHT, PAST AND PRESENT

Michigan State University

FSC 891: Food and Environmental Risk Assessment
FSC 890: Concepts in Agricultural Health

HNF 823: Research Methods in Human Nutrition (guest lecture in Bioinformatics)
CEP 991B: Social Networks
Coca-Cola Webinar on Food Safety Risk Assessment

University of Pittsburgh

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

PUBLICATIONS

Journal Articles

Saha Turna N, Wu F (2019). Risk assessment of aflatoxins in Bangladesh: Is the general population at risk from dietary aflatoxin exposure? *Food Additives and Contaminants*, accepted for publication.

Chen C, Riley RT, Wu F (2018). Dietary Fumonisin and Growth Impairment in Children and Animals: A Review. *Comprehensive Reviews in Food Science and Food Safety*, DOI:10.1111/1541-4337.12392.

Chen C, Mitchell NJ, Gratz J, Houpt ER, Gong Y, Egner PA, Groopman JD, Riley RT, Showker JL, Svensen E, Mduma ER, Patil CL, Wu F. (2018). Exposure to aflatoxin and fumonisin in children at risk for growth impairment in rural Tanzania. *Environment International* 115:29-37.

Ogunade IM, Martinez-Tupia C, Queiroz OCM, Jiang Y, Drouin P, Wu F, Vyas D, Adesogan AT (2018). Mycotoxins in Silage: Occurrence, Effects, Prevention and Mitigation. *Journal of Dairy Science* 101:4034-59.

Bradford KJ, Dahal P, Van Asbrouck J, Kunusoth K, Bello P, Thompson J, Wu F (2018). The Dry Chain: Reducing Postharvest Losses and Improving Food Safety in Humid Climates. *Trends in Food Science & Technology* 71:84-93.

Mmongoyo JA, Wu F, Linz JE, Nair MG, Mugula JK, Strasburg GM (2017). Aflatoxin levels in sunflower seeds and cakes collected from micro- and small-scale sunflower oil processors in Tanzania. *PLOS ONE* 12(4): e0175801.
<http://journals.plos.org/plosone/article/metrics?id=10.1371/journal.pone.0175801>.

Mmongoyo JA, Nair MG, Linz JE, Wu F, Mugula JK, Dissanayake AA, Zhang C, Day DM, Wee JM, Strasburg GM (2017). Bioactive compounds in *Diospyros mafiensis* roots inhibit growth, sporulation and aflatoxin production by *Aspergillus flavus* and *Aspergillus parasiticus*. *World Mycotoxin Journal* 10:237-48.

Chen C, Wu F (2017). The Need to Revisit Ochratoxin A Risk in Light of Global Diabetes, Obesity, and Chronic Kidney Disease Prevalence. *Food and Chemical Toxicology* 103:79-85.

Spink J, Ortega D, Chen C, Wu F (2017). Food Fraud Prevention Shifts the Food Risk Focus to Vulnerability. *Trends in Food Science & Technology* 62:215-20.

Mitchell NJ, Hsu H-H, Chandyo RK, Shrestha B, Bodhidatta L, Tu Y-K, Gong Y-Y, Egner PA, Ulak M, Groopman JD, Wu F (2017). Aflatoxin exposure during the first 36 months of life was not associated with impaired growth in Nepalese children: An extension of the MAL-ED study. *PLOS ONE* 12(2):e0172124.

Mitchell NJ, Chen C, Palumbo J, Bianchini A, Stratton J, Cappozzo J, Ryu D, Wu F (2017). A Risk Assessment of Dietary Ochratoxin A in the United States. *Food and Chemical Toxicology* 100:265-273.

Mitchell NJ, Riley RT, Egner PA, Groopman JD, Wu F (2017). Chronic aflatoxin exposure in children living in Bhaktapur, Nepal: Extension of the MAL-ED study. *Journal of Exposure Science and Environmental Epidemiology* 27:106-11.

Male D, Wu W, Mitchell NJ, Bursian S, Pestka J, Wu F (2016). Modeling the emetic potencies of food-borne trichothecenes by benchmark dose methodology. *Food & Chemical Toxicology* 94:178-85.

Wu F, Mitchell NJ (2016). How climate change and regulations can affect the economics of mycotoxins. *World Mycotoxin Journal* 9:653-663.

Male D, Wu W, Mitchell NJ, Bursian S, Pestka J, Wu F (2016). Modeling the anorectic potencies of simple trichothecenes by benchmark dose and incremental area under curve methods. *World Mycotoxin Journal* 9:279-288.

Mitchell NJ, Bowers E, Hurburgh C, Wu F (2016). Potential economic losses to the US corn industry from mycotoxin contamination. *Food Additives and Contaminants* 33:540-50.

Havelaar AH, Kirk MD, Torgerson PR, Gibb HJ, Hald T, Lake RJ, et al., on behalf of the World Health Organization Foodborne Disease Burden Epidemiology Reference Group (2015). World Health Organization Global Estimates and Regional Comparisons of the Burden of Foodborne Disease. *PLOS Medicine*, DOI:10.1371/journal.pmed.1001923.

Gibb H, Devleesschauwer B, Bolger PM, Wu F, Ezendam J, Cliff J, et al. (2015). World Health Organization Estimates of the Global and Regional Disease Burden of Four Foodborne Chemicals and Toxins, 2010. *F1000 Research* 4:1393. DOI:10.12688/f1000research.7340.1.

Devleesschauwer B, Haagsma JA, Angulo FJ, Bellinger DC, Cole D, Dopfer D, Fazil A, Fevre EM, Gibb H, Hald T, Kirk MD, Lake RJ, Maertens de Noordhout C, McDonald SA, Pires SM, Speybroeck N, Thomas MK, Torgerson PR, Wu F, Havelaar AH, Praet N (2015). Methodological Framework for World Health Organization Estimates of the Global Burden of Foodborne Disease. *PLOS ONE* 10:12. DOI:10.1371/journal.pone.0142498.

Bui-Klimke TR, Wu F (2015). Ochratoxin A and human health risk: A review of the evidence. *Critical Reviews in Food Science and Nutrition* 55:1860-9.

Wu F (2015). Global impacts of aflatoxin in maize: Trade and human health. *World Mycotoxin Journal* 8:137-42.

McDonald S, Devleesschauer B, Speybroeck N, Hens N, Praet N, Torgerson PR, Havelaar A, Wu F, Trembaly M, Amene EW, Döpfer D (2015). Data-driven methods for imputing national-level incidence rates in global burden of disease studies. *Bulletin of the World Health Organization* 93:228-36.

Wu F (2014). Perspective: Time to face the fungal threat. *Nature* 516:S7.

Youn S, Lynch A, Taylor W, Cowx IG, Beard D, Bartley D, Wu F (2014). The value of inland fisheries to global food security: Challenges and opportunities. *Global Food Security* 3:142-8.

Wu F, Mitchell N, Male D, Kensler TW (2014). Reduced foodborne toxin exposure is a secondary benefit of dietary diversity. *Toxicological Sciences* 141:329-34.

Wu F, Bui-Klimke TR, Shields KN (2014). Potential Economic and Health Impacts of Ochratoxin A Standards. *World Mycotoxin Journal* 7:387-98.

Bui-Klimke TR, Wu F (2014). Evaluating Weight of Evidence in the Mystery of Balkan Endemic Nephropathy. *Risk Analysis* 34:1688-705.

Oberoi S, Barchowsky AA, Wu F (2014). The global burden of disease for skin, lung and bladder cancer caused by arsenic in food. *Cancer Epidemiology, Biomarkers & Prevention* 23:1187-94.

Bui-Klimke TR, Guclu H, Kensler TW, Yuan J-M, Wu F (2014). Aflatoxin Regulations and Global Pistachio Trade: Insights from a Social Network Analysis. *PLOS ONE* 9(3):e92149.

Wu F, Groopman JD, Pestka JJ (2014). Public Health Impacts of Foodborne Mycotoxins. *Annual Reviews of Food Science and Technology* 5:351-372.

Austin S, Murthy S, Wunsch H, Adhikari NKJ, Karir V, Rowan K, Jacob ST, Salluh J, Bozza FA, Du B, An Y, Lee B, Wu F, Nguyen L-L, Oppong C, Venkataraman R, Velayutham V,

Duenas C, Angus DC (2014). Access to urban acute care services in high- vs. middle-income countries: an analysis of seven cities. *Intensive Care Medicine* 40:342-52.

Wu F, Guclu H (2013). Global maize trade and food security: Implications from a social network model. *Risk Analysis* 33:2168-78.

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PAST POSITIONS

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

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Panelist for East Lansing Film Festival and Michigan State University screening of “Food Evolution” on benefits and risks of GMOs, 2017

Advisor, Michigan State University Asian Pacific American Studies Program
Middle School Girls Math & Science Day, Michigan State University, Keynote Speaker (2014)