

FELICIA WU, PH.D.

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 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

- Core Faculty, Institute for Integrative Toxicology
- Adjunct Faculty, Department of Epidemiology and Biostatistics
- Advisory Board, Center for Gender in Global Context

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

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

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

RESEARCH AND TEACHING

Fields Toxicology, Food Safety, Mycotoxins, Immunology, 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

- 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-present
- 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)

2020-2025	Co-Project Director: USDA NIFA, “Sustainable, Systems-Based Solutions for Ensuring Low-Moisture Food Safety” (\$9.800,000)
2020-2023	Project Director: USDA NIFA, “Aflatoxin Reduced By Bt Corn? Examining Crop Insurance Claims for Real World Impacts of Technologies for Food Safety” (\$478,000)
2020-2021	Principal Investigator: United States Agency for International Development (USAID) Livestock Systems Innovation Lab, “The Human Health Risk of Aflatoxin M1 in Dairy Products” (\$40,000)
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” (\$50,000)
2015-2019	Principal Investigator: Insect Knowledge Management Program (Bayer/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) National Institute for Food and Agriculture (NIFA), “Integrated Management Strategies for Aspergillus and Fusarium Ear Rots of Corn” (\$5,349,650)
2012-2018	Co-Project Director: USDA NIFA, “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 NIFA, “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 Mali and Kenya” (\$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)

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

- US Department of State, Agricultural Policy Office, 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, 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
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
 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

Expert Reviewer	Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6). Available at: https://www.ipcc.ch/report/srccl/ .
Board Member	External Advisory Board, University of Florida Food Systems Institute
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
Expert Roster	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)
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</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

Member	Presidential Transition Committee, Michigan State University
Member	Presidential Search Committee, Michigan State University
Member	Provost Search Committee, Michigan State University
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, 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

Society for Risk Analysis (SRA)

Society of Toxicology (SOT)

Mentoring Junior Faculty (formal), Michigan State University

Courtney Carignan

Elizabeth Gardner

Ilce Medina-Meza

Rita Strakovsky

Robin Tucker

STUDENTS AND POSTDOCTORAL FELLOWS, CURRENT AND PAST

Advisor, graduated PhD Students

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 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, MS, and MPH Students

Thomas Biksey: Environmental health impacts of alternative fuel sources
Vivian Chiang: Aflatoxin and immunotoxicology
Nikita Saha Turna: Global mycotoxin risk assessment. Hiram E. Fitzgerald Engaged Scholar Award, Society of Toxicology Student Award
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 Committee Member

Saud Almatairi: Risk ranking of different contaminants in apples and apple products
Rahul Dhar: Urbanization and obesity: global trends and “bending the curve”
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
Diana Pacyga: Impact of maternal exposures on infant obesity and other health risks
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 844: Risk Assessment of Foodborne Chemicals and Toxins

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 (James L. Craig Excellence in Education Award nomination)

EOH 2181: Environmental Risk Assessment Practicum (James L. Craig Excellence in Education Award nomination)

EOH 2513: Critical Issues in Bioterrorism

PUBHL 2009: Critical Issues in Global Health

PUBLICATIONS

Journal Articles

Chen C, Frank K, Wang T, Wu F (2020). Global wheat trade and Codex Alimentarius Guidelines for Deoxynivalenol: A mycotoxin common in wheat. *Nature Food*, under review.

Chen C, Kashala-Abotnes E, Banea Mayambu J-P, Mumba Ngoyi D, Tshala-Katumbay D, Mukeba D, Kunya M, Boivin MJ, Wu F (2020). Cost-effectiveness of a wetting method intervention to reduce cassava cyanide-related cognitive impairment in children. *Nature Food*, under review.

Chen C, Boivin M, Wu F (2020). Burden of disease of children's cognitive impairment associated with cassava cyanide in Democratic Republic of the Congo. *Trends in Food Science and Technology*, under review.

Ye Z, Wu F, Hennessy DA (2020). A comprehensive welfare analysis of a glyphosate tax. *Proceedings of the National Academy of Sciences*, revision stage.

Kim J, Mason-Wardell N, Mather D, Wu F (2020). The effects of the National Agricultural Input Voucher Scheme (NAIVS) on sustainable intensification of maize production in Tanzania. *Journal of Agricultural Economics*, revision stage.

Wu F, Rodricks JV (2020). Forty years of food safety risk assessment: A history and analysis. *Risk Analysis*, accepted for publication.

Chen C, Wu F (2020). Livestock-associated methicillin-resistant *Staphylococcus aureus* (LA-MRSA) colonization and infection among livestock workers and veterinarians: A systematic review and meta-analysis. *Occupational and Environmental Medicine*, doi.org/10.1136/oemed-2020-106418.

Ademola O, Saha Turna N, Liverpool-Tasie L, Obadina A, Wu F (2020). Food Processing and Mycotoxin Reduction in Maize-Based Products: Evidence from Lactic Acid Fermentation in Southwest Nigeria. *Food Control*, doi.org/10.1016/j.foodcont.2020.107620.

Xia R, Schaafsma AW, Wu F, Hooker DC (2020). The change in winter wheat response to deoxynivalenol and Fusarium Head Blight through technological and agronomic progress. *Plant Disease*, https://doi.org/10.1094/PDIS-06-20-1310-RE.

Grace D, Wu F, Havelaar A (2020). Foodborne diseases from dairy products in developing countries: Review of causes and health and economic implications. *Journal of Dairy Science*, doi.org/10.3168/jds.2020-18323.

Malone T, Schaefer KA, Wu F (2020). The Razor's Edge of "Essential" Labor in Food and Agriculture. *Applied Economic Perspectives & Policy*, doi:10.1002/aep.13070.

Yu J, Hennessy DA, Wu F (2020). The impact of Bt corn on aflatoxin-related insurance claims in the United States. *Scientific Reports* 10:10046.

Greenberg M, Cox A, Bier V, Lambert J, Lowrie K, North W, Siegrist M, Wu F. (2020). Risk Analysis: Celebrating the Accomplishments and Embracing Ongoing Challenges. *Risk Analysis*. 24 June 2020. DOI: 10.1111/risa.13487.

Xia R, Schaafsma AW, Wu F, Hooker DC (2020). Economic impact of the improvements in Fusarium head blight and agronomic management on farm revenue and profit. *World Mycotoxin Journal* 13:423-39.

Kim J, Mason NM, Snapp S, Wu F (2019). Does sustainable intensification of maize production enhance child nutrition? Evidence from rural Tanzania. *Agricultural Economics* 50:723-34.

Liverpool-Tasie L, Saha Turna N, Ademola O, Obadina A, Wu F (2019). The occurrence and co-occurrence of aflatoxin and fumonisin along the maize value chain in southwest Nigeria. *Food and Chemical Toxicology* 129:458-65.

Chen C, Saha Turna N, Wu F (2019). Risk assessment of dietary deoxynivalenol exposure in wheat products worldwide: Are new Codex DON guidelines adequately protective? *Trends in Food Science and Technology* 89:11-25.

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* 36:320-6.

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* 17:1448-64.

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. [in top 100 papers cited from journal]

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.

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.

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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

Other Interests:

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

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