

Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

2073 Frontiers of Data Science in Agricultural, Environmental, Natural Resource, and Applied Economics

Boylston, 1st Floor

Invited Paper

Increased availability of high resolution biophysical, demographic, and economic data, coupled with dramatic increases in storage and computational capacities, are creating exciting new opportunities for data-driven scientific discovery. Adoption of state-of-the-art data-analytic tools and methods by social and biophysical scientists, and incorporation of behavioral, socioeconomic, and biophysical structure by computational scientists in “Big Data” statistical models, represent critical bottlenecks for advancing data-driven discovery. This session will explore current issues related to data-analytic platforms and methods, institutional partnerships, and prospects for applied economics researchers.

Organizer: Joshua D. Woodard, Cornell University

Discussants: Katherine R. Smith, Council of Professional Associations on Federal Statistics; Thomas W. Sproul, University of Rhode Island

Data Science and Open Data Platforms in Agricultural and Applied Economics

Joshua D. Woodard, Cornell University

Food and Agricultural Industries: Opportunities for Improving Measurement and Reporting

Brent M. Hueth, University of Wisconsin; Richard Dunn, University of Connecticut

2074 Everything You Always Wanted to Know About Identification (But Were Afraid to Ask)

Arlington, 3rd Floor

Organized Symposium

The Credibility Revolution in empirical economics has brought with itself increased standards for causal identification in applied microeconomic research. The purpose of this symposium is to provide some practical insight into identification in agricultural and applied economics. The symposium brings together journal editors, well-respected practitioners, and applied econometricians to discuss the increased standards for identification in modern research, the demands which the Credibility Revolution places upon researchers seeking to publish their work, and answering questions from the floor.

Organizer: Jeffrey D. Michler, Purdue University

Moderator: Jeffrey D. Michler, Purdue University

Panelists: Marc F. Bellemare, University of Minnesota; Michael Delgado, Purdue University; Travis J. Lybbert, University of California, Davis; Agnes R. Quisumbing, International Food Policy Research Institute

2075 Measuring Food and Nutrition Security: FSIN’s Independent Assessment of Indicators

Provincetown, 4th Floor

Organized Symposium

An independent assessment of 140 prevailing indicators of food and nutrition security with a recommended set of high priority indicators for global, national and programmatic monitoring. Phase 1 report of TWG findings will be on the FSIN website by the end of January 2016. Phase 2 Report involving a survey of 1000 stakeholders—generators and users of data—will have been completed. A third phase report on data generation capacity needs and research implications will be underway.

Organizer: Uma Lele, Independent Scholar

Panelists: Gero Carleto, World Bank; Josef Georg Schmidhuber, Food and Agriculture Organization of the United Nations; Maximo Torero, International Food Policy Research Institute

Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

2076 Technology Assessment and Adoption

Salon B, 4th Floor

Selected Presentation – Lightning Session

Presentations evaluate country and commodity specific cases of agricultural productivity and new technology adoption.

Moderator: Poornima Varma, Indian Institute of Management

Climate, Shocks, Weather, and Maize Intensification Decisions in Rural Kenya

Martina Bozzola, Graduate Institute of International and Development Studies; Melinda Smale, Michigan State University; Salvatore DiFalco, University of Geneva

Exploring the Role of Legume Crops in the Agriculture, Nutrition and Food Security Nexus: Evidence from Zambia

Christine M. Sauer, Michigan State University; Mywish K. Maredia, Michigan State University; **Nicole M. Mason**, Michigan State University

How Efficient Is Maize Production among Smallholder Farmers in Zimbabwe?

Douglas Mugabe, West Virginia University; Xiaoli L. Etienne, West Virginia University

Women's Participation in Agriculture and Gender Productivity Gap: The Case of Coffee Farmers in Southern Colombia and Northern Ecuador

Jorge Jair Avila-Santamaria, University of Florida; Maria P. Useche, University of Florida

Agricultural Technology Adoption Under Multiple Constraints: An Analysis of the System of Rice Intensification (SRI) in India.

Poornima Varma, Indian Institute of Management

Into the Weeds: A Structural Model of Herbicide Demand and Glyphosate Resistance on U.S. Corn Farms

Seth J. Wechsler, USDA-Economic Research Service; Jonathan McFadden, USDA-Economic Research Service; David J. Smith, University of Minnesota

2077 The Lightning Strikes: Agricultural, Regulatory, and Resource Policy

Salon C, 4th Floor

Selected Presentation – Lightning Session

This lightning round session provides new insights into current issues related to agricultural and resources regulations and policies.

Moderator: Fanny Moffette, University of Wisconsin

Consequences of Protected Areas for Forest Extraction and Human Well-Being: Evidence from Nepal

Aparna Howlader, University of Illinois at Urbana-Champaign; Amy W. Ando, University of Illinois at Urbana-Champaign

Firm Structure, Environmental Regulation and Plant Death

Jingbo Cui, Wuhan University; GianCarlo Moschini, Iowa State University; Harvey E. Lapan, Iowa State University

Voluntary and Mandatory Regulation: Impacts of Responsible Care on OSHA Enforcement

Huan Li, Purdue University; **Neba Khanna**, Binghamton University

Decomposing Irrigation Water Use Changes in Equilibrium Models

Iman Haqiqi, Purdue University; Thomas W. Hertel, Purdue University

The Effectiveness of State Initiatives for Increasing the Recycling Rate in Florida

Meena Thiyagarajah, University of Florida; Xiang Bi, University of Florida; John J. VanSickle, University of Florida

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2078 Natural Resources Use and Development

Brandeis, 3rd Floor

Selected Presentation

Papers in this session examine issues at the intersection between the economics of natural resources use and development.

Moderator: Patrick S. Ward, International Food Policy Research Institute

Understanding Compliance in Programs Promoting Conservation Agriculture in Malawi

Patrick S. Ward, International Food Policy Research Institute; Andrew R. Bell, New York University; Klaus Droppelmann, Independent Consultant

Where to Invest in the Indus Basin Irrigation System in Pakistan to Improve Land and Water Productivity? Insights from a Hierarchical Model

Dawit K. Mekonnen, International Food Policy Research Institute; Hira Channa, Purdue University

Perceived, Measured, and Estimated Soil Fertility: Implications for Farmer Management Practices in East Africa

Julia Berazneva, Middlebury College; Linden McBride, Cornell University; Megan B. Sheahan, Precision Agriculture for Development; David T. Gueren, Cornell University

Land Use Change in Nepal and the Role of Agricultural Technologies and Input Use

Wei Zhang, International Food Policy Research Institute; Yanyan Liu, International Food Policy Research Institute; Man Li, International Food Policy Research Institute; Zhe Guo, International Food Policy Research Institute; Prapti Bhandary, International Food Policy Research Institute

2079 Peer and Social Network Influences on Consumer Purchase Decisions

Harvard, 3rd Floor

Selected Presentation

Recognizing that decisions are not made in a bubble of isolation, this session provides behavioral insights into the influence of peers and social networks on consumer preferences and purchases.

Moderator: Di Fang, Arizona State University

De Gustibus Non Est Disputandum Revisited: The Influence of Social Networks and Health Status on Preferences for Functional Food

Christian H.C.A. Henning, University of Kiel; Nana Zubek, University of Kiel; Kai-Uwe Strelow, University of Mainz

Social Presence and Shopping Behavior: Evidence from Video Data

Nadia A. Streletskaya, Cornell University

Modeling Product Choices in a Peer Network

Di Fang, Arizona State University; Carola Grebitus, Arizona State University; Timothy J. Richards, Arizona State University

The Impact of Impulsive Behavior on Fresh Produce Purchase: Do the Shopping Companions Matter?

Xuqi Chen, University of Florida; Zhifeng Gao, University of Florida

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2080 Agribusiness Management

Maine, 5th Floor

Selected Presentation

This session focuses on the ways in which the external environment and the firm's core competencies affect managerial decisions and profitability in agribusiness firms.

Moderator: Ryan Pearson, Purdue University

Influence of Firm Size and Structure on Performance Management Practices

Michael A. Gunderson, Purdue University; Ryan Pearson, Purdue University

Characteristics of Hog Producers and How Those Characteristics Affect the Rate of Adoption of Technologies Used in the Hog Industry: Evidence from Hog Producers in the United States

Mario R. Carrillo, University of Minnesota-Twin Cities

The Impact of Dodd-Frank on Small Community Commercial Lenders

Brady E. Brewer, University of Georgia; Levi A. Russell, Texas A&M University

Evaluating Scale and Technical Efficiency among Farms and Ranches with a Local Market Orientation

Allison Bauman, Colorado State University; Becca B. R. Jablonski, Colorado State University; Dawn D. Thilmany McFadden, Colorado State University

2081 Economic Assessment of Non-Traditional Agricultural Production

Massachusetts, 5th Floor

Selected Presentation

The economics of alternative agricultural production systems have not been fully analyzed. Papers in this section examine the economic performance of organic cropping systems and dairy farms, as well as farming on forested land.

Moderator: Aditya R. Khanal, Tennessee State University

Are All Farms Better-off Growing Organic? An Unconditional Quantile Regression Approach

Aditya R. Khanal, Tennessee State University; Ashok K. Mishra, Arizona State University

Farmers and Their Groves: How Efficient are Farms with Forested Land?

Anna M. Klepacka, Warsaw University of Life Sciences; Cesar Revoredo-Giha, Scotland's Agricultural College; Wojciech J. Florkowski, University of Georgia

Agronomic and Economic Performance of Soybean Following Three Previous Crops during the First Transition Year from Conventional to an Organic Cropping System

William J. Cox, Cornell University; Miguel I. Gomez, Cornell University; Samantha Kannan, Cornell University

Economic, Environmental, and Social Sustainability of New England Organic Dairy Farms

Robert L. Parsons, University of Vermont; Qingbin Wang, University of Vermont

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2082 Consumer Valuation, Demand and Preferences

MIT, 3rd Floor

Selected Presentation

This session focuses on the analysis of consumer demand and valuation of the attributes in a variety of food and non-food products.

Moderator: Aaron M. Shew, University of Arkansas

Are All Biotechnologies the Same? Consumer Valuation of Non-GMO RNA Interference and GMO *Bacillus Yhuringiensis* for Insect Control in Rice Production in the USA, Canada, Belgium, France, and Australia

Aaron M. Shew, University of Arkansas; Francis Tsiboe, University of Arkansas; Lawton L. Nalley, University of Arkansas; Bruce L. Dixon, University of Arkansas; Diana Danforth, University of Arkansas; Rodolfo M. Nayga, University of Arkansas

Demand for Varied Fruit and Vegetable Colors from a Supermarket in Detroit, MI

Marie E. Steele, Michigan State University; Dave D. Weatherspoon, Michigan State University

Does Time Spent Preparing Food Affect Consumers' Food Choices?

Gianna Short, University of Minnesota

Estimates of the Demand for E85 Using Stated-Preference Data off Revealed-preference Choices

Kenneth Liao, Iowa State University; Sebastien Pouliot, Iowa State University

2083 Spatial Price Relationships in the United States and World Markets

Nantucket, 4th Floor

Selected Presentation

This session examines price determination and price transmissions in major agricultural commodities, as well as barge rates.

Moderator: Md Zabid Iqbal, Iowa State University

A Simple Spatial Forecasting Model: Case Study of Mississippi Barge Rates

Brian Wetzstein, Zen-Noh Grain Corporation; Raymond J.G.M. Florax, Purdue University; Kenneth A. Foster, Purdue University; James K. Binkley, Purdue University; **Michael E. Wetzstein**, Purdue University

Estimating the Location of World Wheat Price Determination

Joseph Janzen, Montana State University; Michael K. Adjemian, USDA-Economic Research Service

The U.S. Role in the Price Determination of Major Agricultural Commodities

Getachew S. Nigatu, USDA-Economic Research Service; Michael K. Adjemian, USDA-Economic Research Service

Transmission of Global Commodity Prices to Domestic Producer Prices: A Comprehensive Analysis

Md Zabid Iqbal, Iowa State University; Bruce A. Babcock, Iowa State University

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2084 On the Economics of Diets

Northeastern, 3rd Floor

Selected Presentation

A balanced diet is a key to longevity and health. This session includes four papers analyzing diets and nutrition intake.

Moderator: Sonya K. Huffman, Iowa State University

A Novel Discrete Choice Experiment to Determine the Effects of Nutrition Knowledge and Information Provision on Preferences for Dietary Supplements During Pregnancy

Lenka Malek, WCHRI; Wendy J. Umberger, University of Adelaide; Jo Zhou, University of Adelaide; Maria Makrides, Women's and Children's Health Research Institute and the University of Adelaide

Life Satisfaction and Diet: Evidence from the Russian Longitudinal Monitoring Survey

Sonya K. Huffman, Iowa State University; Marian Rizov, University of Lincoln

Ascertaining the Role of Socio-economic-demographic and Government Food Policy Related Factors on the Per Capita Intake of Dietary Fiber Derived from Consumption of Various Foods and Beverages in the United States

Mark C. Senia, Texas A&M University; Senarath Dharmasena, Texas A&M University; Oral Capps Jr., Texas A&M University

Is it Hot in Here or is it Your Food Choices? Examining the Carbon Footprint of U.S. Household Food Spending and Travel to Acquire Food and Linkages to Nutrition and Aggregate Economic Activity

Rebecca L. Boehm, Tufts University; Sean B. Cash, Tufts University; Parke E. Wilde, Tufts University; Michele L. Ver Ploeg, USDA-Economic Research Service; Christine Costello, University of Missouri

2086 Exploring the U.S. Farm Bill

Salon A, 4th Floor

Selected Presentation

This session explores a number of topics on the U.S. Farm Bill ranging from assessing potential changes in farm program participation decisions to how historical events impact the actions of farming lobbies and legislators.

Moderator: John C. Newton, National Milk Producers Federation

2018 Farm Bill: Challenges for Designing Regional Commodity Safety Net Programs

John C. Newton, National Milk Producers Federation; Jonathan Coppess, University of Illinois at Urbana-Champaign

General Equilibrium Analysis of the Farm Bill: SNAP versus Farm Programs

Senal A. Weerasooriya, Oregon State University; Jeffrey J. Reimer, Oregon State University

Implication of 2014 Farm Policies for Wheat Production

Jeff Luckstead, University of Arkansas; Stephen Devadoss, University of Idaho

The Impact of Congressional Donations on Repeated Farm Bill Votes

Scott Callaban, North Carolina State University

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2087 The Impacts of Migration on Labor Markets

Salon D, 4th Floor

Selected Presentation

The papers in this session analyze the role of migration in local and national labor markets.

Moderator: Ruben I. Rojas Valdes, University of California, Davis

Strategic Interactions in Migration Decisions in Rural Mexico

Ruben I. Rojas Valdes, University of California, Davis; C.-Y. Cynthia Lin Lawell, University of California, Davis; Edward Taylor, University of California

Examining the Labor Market Consequences of Endogenous Low-skill Migration with a Market-based Immigration Policy: A General Equilibrium Analysis

German A. Marquez Alcala, Purdue University; Thomas W. Hertel, Purdue University; Roman M. Keeney, Purdue University

Emigration, Local Labor-Markets and Labor Supply for Own Farming in Nepal

Lokendra Phadera, University of Illinois at Urbana-Champaign

Labor Market Integration between the U.S. and Mexico

Zhengfei Guan, University of Florida; Feng Wu, University of Florida

2088 Emerging Issues in Agri-Food Economics: Lessons from Applied Models

Salon H, 4th Floor

Selected Presentation

This session investigates agri-food economics issues through the lens of applied modeling. Issues include monopsony power by food processors, innovation transfer in genetic engineering, generic and brand advertising, and food gleaning programs.

Moderator: Damien Rousseliere, Agrocampus Ovest

“Happy Cows” vs. “Laughing Cow”: Endogenous Market Structure under Generic and Brand Advertising

Benjamin C. Anderson, Colgate University

Innovation Led Alliances: Theory and Application to the GM Plant Industry

Damien Rousseliere, Agrocampus Ovest; Samira Rousseliere, ONIRIS; Shyama Ramani, United Nations University-Merit

An Operational Analysis of Multi-crop Food Bank Gleaning Programs

Erkut Sonmez, Boston College; Deishin Lee, Boston College; **Miguel I. Gomez**, Cornell University; Xiaoli Fan, Cornell University

2089 Remittances, Moral Hazard, and Storage Decisions in Developing Countries

Salon I, 4th Floor

Selected Presentation

The papers in this session investigate developing country issues related to household effects of remittances, moral hazard in group lending, and how risk and liquidity constraints affect storage decisions in developing countries.

Moderator: Heng Zhu, University of California, Davis

Remittance Frequency, Transactions Fees and Household Impacts

Heng Zhu, University of California, Davis

Effects of Risk and Liquidity Constraints on Storage Decisions: Evidence from Maize and Legume Producers in Uganda

Oluwatoba J. Omotilewa, Purdue University; Jacob Ricker-Gilbert, Purdue University; Corinne E. Alexander, Purdue University

A Little Skin in the Microfinance Game: Reducing Moral Hazard in Joint Liability Group Lending Through a Mandatory Collateral Requirement

Jon Einar Flatnes, University of California, Davis; Michael R. Carter, University of California, Davis

The Effect of Shocks and Remittances on Household's Vulnerability to Poverty: Evidence from Bangladesh

Yacob A. Zereyesus, Kansas State University; Francis Tsioboe, University of Arkansas; Weldensie T. Embaye, Kansas State University

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2090 Public Goods, Market Failures, and Public Work

Salon J, 4th Floor

Selected Presentation

The papers in this session highlight public goods issues in developing countries, including eco-tourism, public works, market failures, and preserving the commons.

Moderator: Harounan Kazianga, Oklahoma State University

On the Role of Community Management in Correcting Market Failures of Rural Developing Areas: Evidence from a Randomized Field Experiment of COGES Project in Burkina Faso

Yasuyuki Sawada, University of Tokyo; Takeshi Aida, National Graduate Research Institute for Policy Studies; Andrew S. Griffen, University of Tokyo; **Harounan Kazianga**, Oklahoma State University; Eiji Kozuka, Hiroshima University; Haruko Noguchi, Waseda University; Yasuyuki Todo, Waseda University

Can Ecotourism Reduce Overfishing and Alleviate Poverty in Developing Countries? A Recursive-Dynamic Local Economy-wide Perspective

Ted E. Gilliland, University of California, Davis; James N. Sanchirico, University of California, Davis; J. Edward Taylor, University of California, Davis

Does Providing Public Works Increase Workers' Wage Bargaining Power in Private Sectors?

Yanan Li, Cornell University; Yanyan Liu, International Food Policy Research Institute

2092 Food and Environment

Simmons, 3rd Floor

Selected Presentation

This session focuses on the relationships between agricultural productions, food marketing, consumption, and environmental quality.

Moderator: Yi Li, Zhongnan University of Economics and Law

Competing Eco-Labels and Product Market Competition

Yi Li, Zhongnan University of Economics and Law

Can Information Help Reduce Imbalanced Application of Fertilizers in India? Experimental Evidence from Bihar, India

Ram Fishman; **Avinash Kishore**, International Food Policy Research Institute; Yoav Rothler, Tel Aviv University; Patrick S. Ward, International Food Policy Research Institute

The Effect of a CO2 Emissions Tax on American Diets

Patrick N. Canning, USDA-Economic Research Service; Sarah Rehkamp, USDA-Economic Research Service

Voluntary Programs to Encourage Compliance with Refuge Regulations for Pesticide Resistance Management: Results from a Quasi-Experiment

Zachary S. Brown, North Carolina State University

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2093 Risk in Agricultural Decisions

St. Botolph, 2nd Floor

Selected Presentation

The presentations in this session focus on analyzing the impact of risk during the production process. Topics include technology adoption, contract provisions, water supply uncertainty, and different approaches to model farmer's choices.

Moderator: Muhammad Watto, University of Agriculture, Faisalabad

Bt Cotton Cultivation under Production Risk: Evidence from Pakistan

Muhammad Watto, University of Agriculture, Faisalabad; Amin William Mugeru, University of Western Australia

The Roles of Risk and Honey Bee Colony Strength in Determining Pollination Contract Provisions

Brittney K. Goodrich, University of California, Davis

Irrigation, Risk Aversion, and Water Rights under Water Supply Uncertainty

Man Li, International Food Policy Research Institute; Wenchao Xu, Boise State University; Mark W. Rosegrant, International Food Policy Research Institute

U.S. Farmers' Choices under Expected Utility Theory and Cumulative Prospect Theory

Harun Bulut, National Crop Insurance Services

2094 Energy Policy

Suffolk, 3rd Floor

Selected Presentation

This session focuses on the effects of energy policy on agricultural and energy markets and natural resources.

Moderator: Nathaly M. Rivera, Michigan State University

Market Organization and Productive Efficiency: Evidence from Texas Electricity Market Redesign

Yiyuan Zhang, University of Michigan

Impacts of U.S. Production-Dependent Ethanol Policy on Agricultural Markets

Jason P H Jones, RTI International; Bruce A. McCarl, Texas A&M University

Shale Oil Production Expansion and Water-energy Nexus in North Dakota: A Decentralized Agent-based Modeling Approach

Siew Hoon Lim, North Dakota State University; Zhulu Lin, North Dakota State University; Michael Borders, North Dakota State University; Tong Lin, North Dakota State University

2095 Energy Markets and Industrial Emissions

Tufts, 3rd Floor

Selected Presentation

Papers in this session examine economic aspects and environmental impacts of different energy markets. Some also focus on policies and management options addressing industrial emissions. Presentations provide insight on the design of policies and on the role of markets, taking into account how firms may respond.

Moderator: Ling Huang, University of Connecticut

U.S. County Level Effects of Solar Energy Development

Seth Wiggins, West Virginia University

Temperature Effects are more Complex than Degrees: A Case Study on Residential Energy Consumption

Gi-Eu Lee, Michigan State University; Scott Loveridge, Michigan State University

Pollution Permits, Green Taxes, and the Environmental Poverty Trap

David M. Aadland, University of Wyoming; Sichao Wei, University of Wyoming

Industry Dynamics and the Incentives of Emission Markets

Ling Huang, University of Connecticut

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2096 Land Use Allocation, Farm Growth, and Production Contracts

Vermont, 5th Floor

Selected Presentation

This session consists of papers discussing land use allocation, impacts of spatial interdependence on farm growth, and sugarcane production contracts.

Moderator: Ana Claudia Sant'Anna, Kansas State University

Indirect Land Use Change Effects of Corn Ethanol in the United States: A Panel Data Approach

Yijia Li, University of Illinois at Urbana-Champaign; Ruiqing Miao, Auburn University; Madhu Khanna, University of Illinois at Urbana-Champaign

The Impact of CRP and Crop Prices on Land Allocation: A Differential Model Panel Data Application

Ekaterina A. Vorotnikova, University of Idaho; Serhat Asci, California State University, Fresno

Direct and Indirect Spatial Interaction of Farm Growth

Hugo Storm, Bonn of University; **Thomas Heckelei**, University of Bonn

Analyzing Sugarcane Production Contracts in Brazil: What do the Farmers Really Want?

Ana Claudia Sant'Anna, Kansas State University; Jason S. Bergtold, Kansas State University; Marcellus Caldas, Kansas State University; Gabriel Granco, Kansas State University

2097 Agricultural Production in Less Developed Countries

Vineyard, 4th Floor

Selected Presentation

Two papers in this session focus on agricultural production in India. The remaining two papers address issues related to agricultural production in China.

Moderator: Flavius Badau, USDA-Economic Research Service

Evaluating Inefficiency in Indian Agriculture

Flavius Badau, USDA-Economic Research Service; Nicholas E. Rada, USDA-Economic Research Service

Distortions to Agricultural Incentives in India: Evidence from Agricultural Value Chains

Simla Tokgoz, International Food Policy Research Institute; Fahd Majeed, International Food Policy Research Institute

The Restructuring of Grain Production in Rural China: Regional Heterogeneity and its Reasons

Chunhui Ye, Zhejiang University, China; Xuyuan Zheng, Fujian Agriculture and Forestry University; Zhigang Xu, Nanjing Agricultural University; Wei Bian, Zhejiang University, China

Does the Adoption of Weather Tolerant Variety Contribute to Reduction in Rice Yield Loss? Panel Data Survey from Chinese Rice Farmers

Jiehong Zhou, Management School of Zhejiang University; **Liqun Tang**, Zhejiang University; Zhen Yan, Zhejiang University

2098 Overcoming Problems with Missing Data and Omitted Variables

Wellesley, 3rd Floor

Selected Presentation

The papers in this session provide methods and discussion for overcoming omitted variables bias and missing data. The tools discussed in this session have wide applicability across all areas of applied economic research.

Moderator: Jingyu Song, Purdue University

Down-scaling Land Use Data: Predicting Where Crops Grow at a Fine Spatial Scale

Jingyu Song, Purdue University; Michael Delgado, Purdue University; Paul V. Preckel, Purdue University; Nelson B. Villoria, Kansas State University

The Effects of Honesty Oath and Consequentiality in Choice Experiments

Nathan Kemper, University of Arkansas; Jennie S. Popp, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Claudia Bazzani, University of Arkansas

Estimating Multi-product Production Functions and Productivity Using Control Functions

Emir Malikov, St. Lawrence University

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2099 Agricultural Productivity Dynamics

Yarmouth, 4th Floor

Selected Presentation

Presentations in this session evaluate agricultural productivity growth at the national and regional level.

Moderator: Alejandro Plastina, Iowa State University

Measuring U.S. Agriculture Productivity: Primal vs. Dual Approaches

Alejandro Plastina, Iowa State University; Sergio H. Lence, Iowa State University

Evaluation of Dairy Farm Technical Efficiency: Production of Milk Components as Output Measures

Shuwei Zeng, University of Wisconsin; Brian W. Gould, University of Wisconsin; Xiaodong Du, University of Wisconsin

China's Regional Agricultural Productivity Growth: Catching Up or Lagging Behind

Sun Ling Wang, USDA-Economic Research Service; Jikun Huang, Chinese Academy of Sciences; Xiaobing Wang, Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Francis C. Tuan, World Agricultural Economic and Environmental Services

Examining the Productivity Growth of Agricultural Cooperatives

Krishna P. Pokharel, Kansas State University; Allen M. Featherstone, Kansas State University

2100 Alternative Methods in Valuing the Environment

Boston University, 3rd Floor

Selected Presentation

The papers in this session present alternative methodologies for valuing the environment and natural resources.

Moderator: Richard T. Melstrom, Oklahoma State University

Two-Stage Estimation in RUM Models of Recreation Demand

Richard T. Melstrom, Oklahoma State University; Deshamithra H. W. Jayasekera, Oklahoma State University

Valuing Natural Resources Allocated by Dynamic Lottery

Carson Reeling, Western Michigan University; Valentin Verdier, University of North Carolina, Chapel Hill; Frank Lupi, Michigan State University

A Latent Class Analysis on Public Attitudes Towards Water Resources: Implications for Recreational Demand

Oren Ehrlich, University of Florida; **Xiang Bi**, University of Florida; Tatiana Borisova, University of Florida; Sherry L. Larkin, University of Florida

Recovering Marginal Willingness to Pay from Hedonic Prices Under Imperfect Competition

Ju-Chin Huang, University of New Hampshire; Min Qiang Zhao, Xiamen University; Laura Beaudin, Bryant University

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2101 Measuring Wealth for Developing and Evaluating Rural Development Policy and Strategy 2.0

Clarendon, 3rd Floor

Track Session – CRENET Section

Creating and sustaining wealth is being re-positioned for contemporary rural development policy and strategy. The optimal combination of wealth investments has the potential to improve the long-run prosperity, resiliency, and upward mobility of people in rural places. However, what constitutes wealth and how it is measured in the 21st century has differences to wealth assets of the 19th century highlighted by Thomas Piketty's book *Capital*. This session is a follow up to a 2015 AAEA Session, presenting results from three on-going research efforts to measure wealth in rural regions and understand the place-based implications of these wealth assets.

Organizers: J. Matthew Fannin, Louisiana State University; Paul A. Lewin, University of Idaho; Todd M. Schmit, Cornell University

Comprehensive Wealth Measurement and Spatial Hedonic Analysis: Social Amenities as Externalities of Social Capital
Jinhyoung Kim, Thomas G. Johnson, University of Missouri; John L. Pender, USDA-Economic Research Service; J. Matthew Fannin, Louisiana State University

Applying Comprehensive Wealth Accounting to Evaluating the Impacts of Local Food System Initiatives
Becca B. R. Jablonski, Colorado State University; Todd M. Schmit, Cornell University; David Kay, Cornell University

Does the Level of Local Inequality Affect Community Economic Resilience: An Exploration of Possible Links
Xiurou Wu, Oregon State University; Mallory L. Rahe, Oregon State University; Bruce A. Weber, Oregon State University

Land Ownership, Heir Property and Community Development: The Case of the African American Farmer
Robert Zabawa, Tuskegee University; Conner Bailey, Auburn University; Ntam Baharanyi, Tuskegee University; Rebecca Barlow, Auburn University

2102 Statistical Techniques Used to Identify Climate Change Implications and Potential Adaptations

Dartmouth, 3rd Floor

Track Session – Econometrics Section

There's been a rapid rise in statistical studies exploring the effects of temperature shocks on agriculture and other sectors with the goal of assessing potential impacts of climate change. In addition, more research is being dedicated toward measuring how and how much economic activity can adapt to climate change and thereby mitigate potential damages. This session will explore three fundamental research questions related to these issues and the techniques being used to address them.

Organizer: Jesse B. Tack, Mississippi State University

Moderator: Jesse B. Tack, Mississippi State University

What Matters More, Adaptation or Price Response to Climate Change?
Michael James Roberts, University of Hawaii at Manoa

Measurement Error of Extreme Temperature Events and its Consequences for Climate Change Impact Projections
Ariel Ortiz-Bobea, Cornell University

The Role of El Niño Southern Oscillation in Commodity Price Movement and Predictability
David Ubilava, University of Sydney

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2103 U.S. Agribusiness Exporters to China: Challenges and Success Stories

Exeter, 3rd Floor

Track Session – AEM and China Sections

Imports by China, one of the most important markets for U.S. agricultural exports, are affected by China's agricultural and trade policies along with domestic demand and supply. Since joining the WTO, China adopted more open trade policies; however, it enacted policies promoting food security, price stability and higher incomes for farmers, which lead to increased distortions between Chinese and international markets. Most recently, China continues to expand free trade agreements to diversify its agricultural suppliers. Concurrently, the Trans-Pacific Partnership does not include China. This session provides information of potential risks and opportunities on exporting to China. Discussion stems from interviews with agribusiness leaders and government officials working to facilitate U.S.-China trade while identifying challenges and successes. Interviews were conducted in China and the U.S. as part of the "Expanding U.S. Market Access in China's Evolving Agricultural and Trade Policy Environment" project, funded by USDA-NIFA as an AFRI grant.

Organizers: James M. Hansen, USDA-Economic Research Service; Mary Marchant, Virginia Tech

Moderator: Francis C. Tuan, World Agricultural Economic and Environmental Services

Discussant: Funing Zhong, Nanjing Agricultural University

China's Evolving Agricultural and Trade Policies – Impact on U.S. Exports

Mina Hejazi, Virginia Tech; Funing Zhong, Nanjing Agricultural University; Jing Zhu, Nanjing Agricultural University

Challenges and Successes by U.S. Agribusiness Exporters to China

James M. Hansen, USDA-Economic Research Service; Francis C. Tuan, World Agricultural Economic and Environmental Services; Agapi L. Somwaru

A Case Study - Supplying China's Growing Appetite for Poultry

Mary Marchant, Virginia Tech; Wei Zhang, Virginia Tech; Wei Chen, Shanghai University of Finance and Economics

2104 Agricultural Productivity, Nutrition and Food Security in Latin America

Fairfield, 3rd Floor

Track Session – LAS Section

Latin America has managed to reach both targets of the Millennium Development Goals of eradicating extreme poverty and hunger. By halving the proportion of people whose income is less than \$1, and the proportion of people who suffer from hunger, significant progress have been made toward achieving food and nutrition security, yet significant work remains to be done. This session will focus on two interconnected food security issues: agricultural productivity and nutrition. Presentations made by researchers from academic institutions and international development and research organizations will provide an up-to date view of these two issues. The session also includes presentations providing an overall view of the issues in the region as well as case studies from two countries: Peru and Guatemala.

Organizers: Carlos E. Carpio, Texas Tech University; Luis Sandoval, Texas Tech University

Moderator: Carlos E. Carpio, Texas Tech University

Agricultural Productivity, Climate Change, and Food Security in Latin American Countries

Carlos Ludeña, Inter-American Development Bank

Impacts of CIP Potato Variety Development on Food Security in Highland Peru

Jeffrey Alwang, Virginia Tech

Policy Implications of Two Food Security Measurement Methodologies in Guatemala

Luis Sandoval, Texas Tech University; Manuel Garcia, Zamorano University; Carlos E. Carpio, Texas Tech University

Seasonality, Birth Order and Stunting: Evidence from Guatemala

Manuel A. Hernandez, International Food Policy Research Institute; Francisco Ceballos, International Food Policy Research Institute; Miguel Robles, International Food Policy Research Institute

Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

2105 Financing Innovation for Agriculture and Food: What Next? Part 1: Evolving Funding Models

Hyannis, 4th Floor

Track Session – Australasia Section

This is the first of two linked sessions on the same topic, with a mixture of speakers from government, universities, and industry. Each session will have a set of short presentations followed by a general discussion.

Organizer: Julian M. Alston, University of California, Davis

Moderator: Julian M. Alston, University of California, Davis

Investments in Agricultural and Food R&D: The New Global Landscape

Philip G. Pardey, University of Minnesota-Twin Cities

The Evolving Institutional Structure of Public and Private Agricultural Research

Keith O. Fuglie, USDA-Economic Research Service

Public-Private-Producer Partnerships: Theory and Practice

Richard S. Gray, University of Saskatchewan

Financing Innovation for Agriculture and Food: The Role of Value Chains

Johan F.M. Swinnen, University of Leuven

2106 Does Food Safety Regulation Pay?

New Hampshire, 5th Floor

Track Session – FSN and FAMPS Sections

Recent food safety regulations such as the Food Safety Modernization Act for FDA and the Modernization of Poultry Slaughter Inspection for USDA have imposed new requirements on food producers with the goal of reducing the risk of foodborne illness. When implementing major regulations, government agencies must assess whether the health benefits of the regulation exceed the costs of required actions. Regulatory agencies typically must conduct analyses in a situation with limited data and time and following specific statutory requirements. The purpose of this session is to discuss the methods that have been used to estimate the benefits and costs of recent regulations, discuss how economic analyses improve regulations, identify the challenges associated with conducting economic analyses of regulation, and identify areas in which additional research could improve analyses conducted for food safety regulations.

Organizers: Sandra Hoffmann, USDA-Economic Research Service; Mary K. Muth, RTI International

Moderator: Christiane Schroeter, California Polytechnic State University

USDA Perspective

April Regonlinski, USDA-Food Safety and Inspection Service

FDA Perspective

James Bradley Brown, U.S. Food and Drug Administration

Benefit Estimation Methodologies

Jean C. Buzby, USDA-Economic Research Service

Cost Estimation Methodologies

Mary K. Muth, RTI International

OMB Perspective

Elizabeth Ashley, Office of Management and Budget

Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

2107 Are Checkoff Programs Good for Nutrition?

Berkeley, 3rd Floor

Track Session – FAMPS Section

The nutrition quality of federal generic commodity promotion programs is important and controversial. This panel discussion session will address the question “Are checkoff programs good for nutrition?” Harry Kaiser will provide a 20-minute presentation that takes the “yea” view. Parke Wilde will give a 20-minute talk that gives the “nay” view. The two presenters have planned their presentations to set up an engaging contrast while still reflecting favorably on both areas of work. As discussant, John Crespi will present his own thoughts on the balance of evidence (15 min). The discussant/moderator, Kristin Kiesel, will engage the audience in a vigorous discussion period. Like the moderator in a political debate, her mandate includes the authority to probe for greater detail and to engage the arguments at stake.

Organizer: Parke E. Wilde, Tufts University

Discussants: John M. Crespi, Iowa State University; Kristin Kiesel, University of California, Davis

Presenters: Harry M. Kaiser, Cornell University; Parke E. Wilde, Tufts University