

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### **2001 Optimal Food Waste: A Theoretical and Empirical Foundation**

*Boylston, 1st Floor*

#### **Invited Paper**

Globally, one-third of all food products, \$1 trillion annually, is lost or wasted in food production and consumption. Various governmental policies and programs can mitigate food waste, but a sound economic theory and empirical hypothesis testing is required for achieving efficiency. The current implicit literature path has an objective of zero food waste. However, economic theory indicates some optimal level of food waste. The aim is to establish a theoretical and empirical foundation for shifting the literature toward an economically efficient food waste trajectory. Only then can we develop economically efficient policies.

**Organizers:** Jean C. Buzby, USDA-Economic Research Service; Harry De Gorter, Cornell University; Bhagyashree Katare, Purdue University; Brian E. Roe, The Ohio State University; Mark W. Rosegrant, International Food Policy Research Institute; Michael E. Wetzstein, Purdue University

**Moderator:** Jean C. Buzby, USDA-Economic Research Service

**Discussant:** Harry De Gorter, Cornell University

Toward an Optimal Food Waste Tax

Bhagyashree Katare, Purdue University; Dmytro Serebrennikov, Leibniz Institute of Agricultural Development in Transition Economies; **Michael E. Wetzstein**, Purdue University

The Rebound Effect of Food Waste Reduction Policies: Theory and Evidence

Danyi Qi, The Ohio State University; **Brian E. Roe**, The Ohio State University

Returns to Investment in Reducing Postharvest Food Losses and Increasing Agricultural Productivity Growth

**Mark W. Rosegrant**, International Food Policy Research Institute; Eduardo C. Magalhaes, Datalyze Consulting Corp; Rowena Valmonte-Santos, International Food Policy Research Institute; Daniel Mason-D'Croz, International Food Policy Research Institute

### **2002 Methodological Innovations for Advancing Research on Nutrition and Agriculture**

*Arlington, 3rd Floor*

#### **Organized Symposium**

This session draws on a new BMGF-funded project building methodological bridges between data at different analytical scales, providing methodological innovations adapted to the challenge of quantifying agriculture-nutrition linkages in an integrated fashion. The session will cover the full spectrum of microeconomic research based on household surveys, meso level analysis of markets and trade within countries, and macro level simulation analyses. Some of the innovations in this field include the construction of synthetic data sets that merge together nutrition surveys with geographic information system (GIS) data or other aggregate data (e.g. crop surveys, price data), nutrition-smart simulation models that go beyond household income/consumption metrics to look at dietary patterns, and nutrition-smart agricultural household surveys that integrate best practices for both nutrition and agricultural measurement.

**Organizers:** Derek Headey, International Food Policy Research Institute; William A. Masters, Tufts University

**Panelists:** Steven A. Block, Tufts University; Calogero Carletto, World Bank; You Liangzhi, International Food Policy Research Institute; James Thurlow, International Food Policy Research Institute

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### 2003 Risk, Resilience and Adaptation to Climate Change

*Wellesley, 3rd Floor*

#### Organized Symposium

This session focuses on resilience and adaptation to weather and energy shocks in domestic and non-domestic settings. It provides new insights into the potential impacts of climate change.

**Moderator:** Justice T. Mensah, Swedish University of Agricultural Sciences

Bring Back the Light: Power Outages and Industrial Performance in Sub-Saharan Africa

**Justice T. Mensah**, Swedish University of Agricultural Sciences

The Value of Coastal Protection and Risk: Evidence from the Oregon Coast

**Steven J. Dundas**, Oregon State University; David Kling, Oregon State University; David Lewis, Oregon State University

Sea Level Rise, Flood Risk and Property Values: Evidence from New York City

**Matthew Gibson**, University of California, San Diego; Alison Hill, Williams College

Can Farmers Adapt to Extreme Heat? Evidence from India

**Vis P. Taraz**, Smith College

### 2004 Crop Insurance and Credit Access

*Salon B, 4th Floor*

#### Selected Presentation – Lightning Session

Crop insurance today constitutes the largest set of direct agricultural subsidy programs. This session explores issues related to pricing and delivery of that program, and its interaction with credit markets.

**Moderator:** Christopher Burns, USDA-Economic Research Service

Do Direct Payments and Crop Insurance Influence Mid-size Farm Survival and Decisions to Expand?

**Christopher Burns**, USDA-Economic Research Service; Daniel Prager, USDA-Economic Research Service

How Crop Insurance Affects Farm Business Survivability

**Youngjune Kim**, Kansas State University; Dustin L. Pendell, Kansas State University

Income Tax Credits to Assist Beginning Farmers and Ranchers: A Look at State-Level Policies

**James M. Williamson**, USDA-Economic Research Service; Anthony Girardi, Iowa Department of Revenue

Dynamic Heterogeneous Agent Models of Default on Farm Real Estate Loans

**Yifei Wu**, University of Georgia; Jeffrey H. Dorfman, University of Georgia; Brady E. Brewer, University of Georgia

ARMS Respondent Errors: A Case of Farm Service Agency Loans

**Bruce L. Abrendsen**, University of Arkansas; Bruce L. Dixon, University of Arkansas; Charles B. Dodson, Farm Service Agency/  
Economic Policy Analysis Staff; Diana Danforth, University of Arkansas; Nicole McMinn, University of Arkansas

Access to Credit by Traders in Chinese Agricultural Wholesale Markets

**Lifang Hu**, Renmin University of China; Yinchu Zeng, Renmin University

Agricultural Production, Credit Constraints, and Rate Liberalization in China

**Jie Lu**, Renmin University of China; Zhong Tang, Renmin University of China

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### **2005** Agricultural Production Economics

*Salon C, 4th Floor*

#### **Selected Presentation – Lightning Session**

This session is comprised of eight papers related to Production Economics.

**Moderator:** Melissa McKendree, Kansas State University

Technical Efficiency of Dairy Farms in Uruguay: a Stochastic Production Frontier Analysis

**Gabriela Perez-Quesada**, Universidad de la Republica; Federico Garcia-Suarez, Universidad de la Republica

Comparisons of Real Values of Capital Input

Virgil Eldon Ball, USDA-Economic Research Service; **Richard F. Nebring**, USDA-Economic Research Service; Yu Sheng, Australian Bureau of Agricultural and Resource Economics

Modelling of Bt Corn Production Under Choice of Abatement Specification

**Xiangdong Shi**, University of Minnesota at Twin Cities; Terrance M. Hurley, University of Minnesota

Identifying Economic Hurdles to Early Adoption of Preventative Practices: The Case of Trunk Diseases in California Winegrape Vineyards

**Jonathan D. Kaplan**, California State University, Sacramento; Renaud Travadon, USDA-Agricultural Research Service; Monica Cooper, University of California Cooperative Extension; Vicken Hillis, University of California, Davis; Mark Lubell, University of California, Davis; Kendra Baumgartner, USDA-Agricultural Research Service

Pass-through in the United States Beef Industry: An Update and Expansion

**Melissa McKendree**, Kansas State University; Glynn T. Tonsor, Kansas State University

The Yield Dynamics of Perennial Crops: An Application to Sugarcane in Brazil

**Daniel Tregear**, University of California, Berkeley; David Zilberman, University of California, Berkeley

### **2006** Political Economy and Environmental Policy

*Harvard, 3rd Floor*

#### **Selected Presentation**

Papers in this session focus on two main issues: the political economy of environmental regulations, and the welfare and environmental impacts of these policies.

**Moderator:** Nicholas J. Pates, Kansas State University

The Political Economy of Embodied Technologies

**Gal Hochman**, Rutgers University; David Zilberman, University of California, Berkeley

Costly Inspections and Little Abatement: An Evaluation of I/M Efficiency

**Christopher S. Giguere**, North Carolina State University

Additionality in Payments for Environmental Services with Technology Diffusion

**Nicholas J. Pates**, Kansas State University; Nathan P. Hendricks, Kansas State University

Is There Life After Death? The Case of the 33/50 Program

Phi Hoang, University of Georgia; **William Henry McGuire**, University of Washington Tacoma; Aseem Prakash, University of Washington

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### 2007 New Insights into Index Insurance

*Hyannis, 4th Floor*

#### Selected Presentation

Index insurance is gaining attention as an alternative to indemnity-based insurance. The papers in this session discuss new research touching on several dimensions related to index insurance.

**Moderator:** Khushbu Mishra, The Ohio State University

Gender Differential Impacts of Index-Based Rainfall Insurance on Technology Adoption: Evidence from Ghana

**Khushbu Mishra**, The Ohio State University; Richard Gallenstein, The Ohio State University; Mario J. Miranda, The Ohio State University; Abdoul G. Sam, The Ohio State University; Patricia Toledo, The Ohio State University

The Crowd-In Effect of Index Insurance on Informal Risk Sharing

**Chang Xu**, The Ohio State University; Mario J. Miranda, The Ohio State University

Index Insurance and Moral Hazard in a Microfinance Context

**John Dougherty**, The Ohio State University; Richard Gallenstein, The Ohio State University; Khushbu Mishra, The Ohio State University; Mario J. Miranda, The Ohio State University; Jon Einar Flatnes, University of California, Davis

### 2008 Spatial and Land Issues in Agribusiness

*Maine, 5th Floor*

#### Selected Presentation

This session addresses spatial and land-related ecosystem issues in agribusiness.

**Moderator:** Tun-Hsiang Yu, University of Tennessee

Determinants of Lock Delays on the Upper Mississippi River: A Spatial Econometrics Approach

**Tun-Hsiang Edward Yu**, University of Tennessee; Burton C. English, University of Tennessee; Bijay Sharma, University of Tennessee

Land Rental, Farm Investment, Productivity and Efficiency in Burkina Faso

**Didier Y. Alia**, University of Kentucky; Yoko Kusunose, University of Kentucky; Veronique Theriault, Michigan State University

The Spatiotemporal Interrelatedness of Farmers' Switching Decisions

**Tim Viergutz**, Goettingen University; Birgit Schulze-Ehlers, Goettingen University

Tradeoffs among Multiple Ecosystem Services and Economic Returns from Groundwater Depletion on a Farm Landscape

**Kent Kovacs**, University of Arkansas; Michael P. Popp, University of Arkansas; Grant H. West, University of Arkansas

### 2009 Choice Experiments and the Influence of Beliefs and Sensory Evaluation on Preferences

*Massachusetts, 5th Floor*

#### Selected Presentation

This session presents research on drivers of demand and willingness to pay for different food products. Furthermore, it informs on influence of beliefs and sensory evaluation as it relates to experimental research.

**Moderator:** Renee Shaw Hughner, Arizona State University

Drivers of Demand for Specialty Crops – The Example of Arizona-Grown Medjool Dates

Carola Grebitus, Arizona State University; **Renee Shaw Hughner**, Arizona State University; Anne O. Peschel, Aarhus University

What Consumers Don't Know About GM Food and How That Affects Beliefs

**Brandon R. McFadden**, University of Florida; Jayson L. Lusk, Oklahoma State University

Combining Sensory Evaluation and Mental Models in the Assessment of Consumer Preferences for and Choice of Healthy Products: Experience from a Field Experiment in Kenya

**Julius J. Okello**, International Potato Center; Carl Johan Lagerkvist, Swedish University of Agricultural Sciences; Penina Muoki, International Potato Center; Simon Heck, International Potato Center; Gordon Prain, International Potato Center

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### 2010 Information and Consumer Decision

*MIT, 3rd Floor*

#### Selected Presentation

This set of papers present evidence on how information and risk in a variety of contexts affects consumer decisions and behavior.

**Moderator:** Zack Dorner, Monash University

Have Smart Meters Been Used Smartly by Electricity Customers? Evidence from a Case Study in Vermont

**Samantha W. Lewandowski**, University of Vermont; Qingbin Wang, University of Vermont; Robert L. Parsons, University of Vermont

To Tell or Not to Tell: How the Initial Information Impacts Participants' Behavior

**Gnel Gabrielyan**, Washington State University

Investigating the U.S. Consumer Response to the Chinese Takeover of a U.S. Firm

**Yu Yvette Zhang**, Texas A&M University; Marco A. Palma, Texas A&M University; Shaosheng Jin, Zhejiang University; Xiaotong Yuan, Texas A&M University

Eliciting Risk Preferences for Intrinsic Attributes

**Zack Dorner**, Monash University; Daniel A. Brent, Monash University; Anke Leroux, Monash University

### 2011 Impact of Energy Shocks on Agricultural and Related Markets

*Nantucket, 4th Floor*

#### Selected Presentation

This session focuses on empirical applications that examine the effects of energy shocks on energy and agricultural commodities and input prices.

**Moderator:** Vladimir Bejan, Seattle University

Oil Price Volatility and Asymmetric Leverage Effects

**Eunhee Lee**, Korea University; Doo Bong Han, Korea University

Identification in Structural Models Linking Energy and Corn Commodity Markets

**Veronica F. Pozo**, Utah State University; Vladimir Bejan, Seattle University

Energy Shocks and Price Adjustment: National Brands vs. Private Labels

Xun Li, Wuhan University; **Rui Wang**

Not All Energy Shocks Are Alike: Disentangling Shocks in the U.S. Fertilizer Market

**Vladimir Bejan**, Seattle University; Veronica F. Pozo, Utah State University

### 2012 Applied Environment and Natural Resource Valuation

*New Hampshire, 5th Floor*

#### Selected Presentation

The papers in this session utilize hedonic and sorting models to evaluate the relationship between amenities/disamenities and residential housing.

**Moderator:** David M. Wolf, The Ohio State University

Blue-Green Algae's Impact on Ohio's Inland Lake Housing Markets

**David M. Wolf**, The Ohio State University; Allen Klaiber, The Ohio State University

Hedonic Analysis and Time Varying Amenities: An Application Using School Quality

**Charles A. Towe**, University of Connecticut; Constant Tra, University of Nevada, Las Vegas

Do Superfund Sites Affect Local Property Values? Evidence from a Spatial Hedonic Approach

**GwanSeon Kim**, Jack Schieffer, University of Kentucky; Tyler B. Mark, University of Kentucky

The Impact of Pollution Burden on Micro-level Residential Sorting

**Mitchell R. Livy**, California State University, Fullerton; Cristina Connolly, The Ohio State University

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### 2013 Child Health and Development

*Northeastern, 3rd Floor*

#### Selected Presentation

Three papers in this session investigate various issues related to child health and development.

**Moderator:** Hope C. Michelson, University of Illinois at Urbana-Champaign

Agricultural Production Subsidies and Child Health: Evidence from Malawi

**Hope C. Michelson**, University of Illinois at Urbana-Champaign; Gillian Galford, University of Vermont

Climate Shocks and Child Health: Sex-specific Vulnerability and Protective Effects of Sanitation and Food Markets in Nepal

Steven A. Block, Tufts University; **William A. Masters**, Tufts University; Prajula Mulmi, Tufts University; Gerald E. Shively, Purdue University

Associations Between Food Scarcity During Pregnancy and Children's Survival and Growth in Zambia

**Maria Christina J. Foreman**, University of New Hampshire; Guenther Fink, Harvard School of Public Health; Wafaie Fawzi, Harvard School of Public Health; Ibironke Olofin, Harvard School of Public Health

Immiserizing Biotechnology: Is Semisynthetic Artemisinin Good for Global Health?

**K. Aleks Schaefer**, University of California, Davis

### 2014 Economic Analyses of Obesity

*Provincetown, 4th Floor*

#### Selected Presentation

In this session four papers examine obesity, its economics causes, and its economic impacts.

**Moderator:** Abigail M. Okrent, USDA-Economic Research Service

Obesity as a Modifier of Price Sensitivity in the United States

**Abigail M. Okrent**, USDA-Economic Research Service; Megan D. Sweitzer, USDA-Economic Research Service

The Impact of the Food Environment on Childhood Obesity using the BMI Report Card in Worcester MA

**Belkis J. Cerrato Caceres**, Edgewood College; John Brown, Clark University; Jacqueline Geoghegan, Clark University

Mindlessness and Mindfulness of Secondary Eating

**Fuad Alagsam**, University of Kentucky; Jack Schieffer, University of Kentucky

### 2015 The Impacts of Advertising on Food Consumption

*Regis, 3rd Floor*

#### Selected Presentation

These papers examine the motivation for advertising food products, the effects on brand choice, and how advertising regulations impact product choices and related outcomes. Different types of advertising, products, and locations are considered.

**Moderator:** Xi He, University of Connecticut

Do Firms Advertise and Price to Maximize Profits? Evidence from U.S. Food Industries

**Xi He**, University of Connecticut; Rigoberto A. Lopez, University of Connecticut

The Impact of Child-Directed TV Food Advertising Regulations on Pocket Money Allowances

**Lindsey M. Higgins**, California Polytechnic State University; Andres Silva, Institut National de la Recherche Agronomique

Does Self-Regulation Work? The Case of Television Food Advertisement to Children in Germany

**Stefanie C. Landwehr**, University of Bonn; Monika Hartmann, University of Bonn

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### 2016 Plant Breeding: Market Analysis and Policy

Salon A, 4th Floor

#### Selected Presentation

Proponents of genetically modified (GM) crops list increased yields, enhanced resistance to adverse weather, diseases and pests, and increased nutritional content, among other benefits. The controversy lies in the effect genetic modifications may have on human health. The papers in this session address some of the market and policy impacts of plant breeding programs with special emphasis on GM crops.

**Moderator:** Wallace E. Tyner, Purdue University

Economic and Environmental Impacts of a Global GMO Ban

Harrison H. Mahaffey, Purdue University; Farzad Taheripour, Purdue University; **Wallace E. Tyner**, Purdue University

Modeling the Optimal Strategies for Mitigating Genetically Modified (GM) Wheat Contamination Risks

**Houtian Ge**, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University; Richard S. Gray, University of Saskatchewan; James F. Nolan, University of Saskatchewan

Are WTP Estimates for Fruit Quality Similar between Producers and Consumers? Results of a Choice Experiment on Five Rosaceous Fruit Crops

**R. Karina Gallardo**, Washington State University; Chengyan Yue, University of Minnesota; Vicki A. McCracken, Washington State University; James Luby, University of Minnesota; James R. McFerson, Washington Tree Fruit Research Commission

### 2017 Carbon Sequestration and Emissions in Forests

Salon D, 4th Floor

#### Selected Presentation

Papers in this session explore the role of management and policies on forest carbon, as well as aim to quantify the difficult tradeoffs between forests and agriculture in the Amazon.

**Moderator:** WanYu Liu, Aletheia University

A Study on the Forest Thinning Planning Problem Considering Carbon Sequestration and Emission

**WanYu Liu**, Aletheia University

Trade-offs Between the Amazon Forest and Agriculture in Brazil

**Felipe De Figueiredo Silva**, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln

The Role of Management in Greenhouse Gas Emissions Projections for the U.S. Forest Sector

Xiaohui Tian, Renmin University of China; Brent Sohngen, The Ohio State University; **Justin S. Baker**, RTI International

Cost Efficiency of Payment Systems for Forest Carbon Sequestration Incorporating Spatial and Temporal Heterogeneities

**Mohamed-Amine Ben Ayara**, University of Tennessee; Seong-Hoon Cho, University of Tennessee; Cristopher Clark, University of Tennessee; Dayton M. Lambert, University of Tennessee; Paul R. Armsworth, University of Tennessee

### 2018 Retail Price Dispersion and Downstream Competition

Salon H, 4th Floor

#### Selected Presentation

This session addresses empirical issues related to competition at the manufacturing and retailing stages of the supply chain.

**Moderator:** Hao Lan, University of East Anglia

Dynamic Pricing, Price Fairness, and Market Stability

**Timothy J. Richards**, Arizona State University; Jura Liaukonyte, Cornell University; Nadia A. Streletskaya, Cornell University

The Relationship between Price and Market Structure: New Evidence from the U.S. Food Retail Industry

**Vardges Hovhannisyian**, University of Wyoming; Marin Bozic, University of Minnesota-Twin Cities

Retail Competition in Fruit and Vegetable Prices: An Empirical Analysis

**Hao Lan**, University of East Anglia

The Structure and Competitiveness of Energy Drinks Market

**Mahdi Asgari**, University of Kentucky; Yuqing Zheng, University of Kentucky

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## 2019 Household Food Demand

Salon I, 4th Floor

### Selected Presentation

This session includes a set of papers that analyze household food demand in a variety of settings.

**Moderator:** Rapheal O. Babatunde, University of Ilorin, Nigeria

Does Community-based Health Insurance Improve Food Consumption of Low-income Households? Evidence from Kwara State Health Insurance in Nigeria

**Rapheal O. Babatunde**, University of Ilorin, Nigeria

Neighborhoods Matter: Variation in Food Insecurity Not Explained by Household Characteristics

**Olayemi Olabiyi**, Southern Alberta Institute of Technology

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

The Demand for Food in France: The Case of Consumption at Retirement

**Gayaneh S. Kyureghian**, Korea University; Louis Georges Soler, Institut National de la Recherche Agronomique

## 2020 Land Rights and Development

Salon J, 4th Floor

### Selected Presentation

Papers presented in this session investigate issues related to land rights and values in developing countries.

**Moderator:** Ayala Y. Wineman, Michigan State University

Land Markets and Equity of Land Access in Northwestern Tanzania

**Ayala Y. Wineman**, Michigan State University; Lenis S. Liverpool-Tasie, Michigan State University

What is Driving Farmland Rental Prices in Sub-Saharan Africa? Evidence from Malawi

**Jacob Ricker-Gilbert**, Purdue University; Nicole M. Mason, Michigan State University; Jordan Chamberlin, International Maize and Wheat Improvement Center

Land Rights and Women's Empowerment: Insights from Item Response Theory

**Maria José Montenegro**, University of Alberta; Sandeep Mohapatra, University of Alberta; Brent M. Swallow, University of Alberta

Direct Measurement of Efficiency Gains from Land Titling: PROCEDE's Effect upon the Productivity of Mexican Agriculture

**Travis McArthur**, University of Wisconsin

## 2021 Free Trade Agreements and Agricultural Trade: Commodities and Geography

Salon K, 4th Floor

### Selected Presentation

This session features papers looking at specific effects of regional trade agreements on agricultural trade flows and related issues. Both commodity specific concerns and geographic factors are investigated.

**Moderator:** Lorraine S. Mitchell, USDA-Economic Research Service

Trade Creation and Diversion Under NAFTA: The North American Strawberry Market

P. Lynn Kennedy, Louisiana State University; **Youngjae Lee**, Louisiana State University

Determining the Effect of NAFTA on the North American Sweet Potato Market

P. Lynn Kennedy, Louisiana State University; **Youngjae Lee**, Louisiana State University

Protected Geographic Indicators in Trade Agreements

**Lorraine S. Mitchell**, USDA-Economic Research Service

Live and Let Die – Exporter Experience and Sequential Exporting in the International Coffee Market

**Sven M. Anders**, University of Alberta; Heiko Dreyer, University of Giessen



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## 2022 Sector-Based Economic Development Approaches

*Suffolk, 3rd Floor*

### Selected Presentation

Papers in this session discuss economic development approaches targeting specific industries, including retail, agritourism, women-owned farms, and wind energy.

**Moderator:** Steven C. Deller, University of Wisconsin

Big-Box Retailers and Regional Income Growth

**Man-Keun Kim**, Utah State University; Denis Peralta, Utah State University

Exploring the Economics of Agritourists: Customizing Travel Cost Methods to Evaluate Differences Across the Western United States

**Anders T. Van Sandt**, Colorado State University; Dawn D. Thilmany McFadden, Colorado State University; Rebecca Hill, Colorado State University; Martha J. Sullins, Colorado State University

Women Farmers and Rural Economic Growth and Development

**Steven C. Deller**, University of Wisconsin; Tessa Conroy, University of Wisconsin

## 2023 Land Use, Climate Change and Agriculture

*Tremont, 1st Floor*

### Selected Presentation

Papers in this session explore land use and technology changes as agriculture adapts to climate change.

**Moderator:** Ernst Bertone Oehninger, University of California, Davis

The Effects of Climate Change on Groundwater Extraction for Agriculture and Land-use Change

**Ernst Bertone Oehninger**, University of California, Davis; C.-Y. Cynthia Lin Lawell, University of California, Davis

The Role of Climate Factors in Shaping China's Crop Mix: An Empirical Exploration

**Yuquan W. Zhang**, Shanghai Jiao Tong University; Jianhong Mu, Oregon State University; Mark Musumba, The Earth Institute at Columbia University

Farmers' Rankings of the Determinants of Land Use Decisions at the Margins of the Corn Belt

**Tong Wang**, Texas AgriLife Research; David A. Hennessy, Michigan State University; Larry L. Janssen, South Dakota State University; Hongli Feng, Michigan State University; Michael Wimberly, South Dakota State University; Moses Luri, Washington State University

Changing Agricultural Land-use in the United States and its Implications on Ecosystem Services

**Jerome R. Dumortier**, Purdue University

## 2024 Methods in Valuing the Environment and Natural Resources

*Tufts, 3rd Floor*

### Selected Presentation

The papers in this session address methodological aspects associated with valuing the environment and natural resources.

**Moderator:** Abdulallah S. Abdulrahman, Clark University

Correcting Systematic Response Bias in Discrete Choice Experiments: Implications for the Valuation of Climate Risk Reductions

**Abdulallah S. Abdulrahman**, Clark University; Robert J. Johnston, Clark University

Comparing Performance of Discrete Choice Models in Stated Choice Methods: A Prediction-based Approach Using Preference Order Data

**Yau-Huo Shr**, The Pennsylvania State University; Richard C. Ready, The Pennsylvania State University

Accommodating Satisficing Behaviour in Stated Choice Experiments

Erlend D. Sandorf, Arctic University of Norway; **Danny Campbell**, University of Stirling

The Wisdom of the Economic Crowd: Calibrating Integrated Assessment Models Using Consensus

Derek Sylvan, Institute for Policy Integrity; **Peter H. Howard**, Institute for Policy Integrity

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## 2025 Modeling Methods in Agriculture

Vermont, 5th Floor

### Selected Presentation

This session offers a diverse set of papers utilizing empirical and theoretical modeling frameworks, such as Computable General Equilibrium (CGE) modeling and game theoretic models, to investigate various issues in agriculture.

**Moderator:** Margaret C. Jodlowski, Cornell University

Is ICE Freezing U.S. Agriculture? An Instrumental Variable Approach

**Margaret C. Jodlowski**, Cornell University; Jennifer E. Ifft, Cornell University

Study of Grain Markets Price Behavior in Mali Using a Co-integration Approach

**Jean Claude Bizimana**, Texas A&M University; David A. Bessler, Texas A&M University; Francis Keita, Agricultural Market Observatory

Potential Poverty Effects of the Special Safeguard Mechanism: The Case of Wheat

**Amanda M. (Leister) Countryman**, Colorado State University; Danielle Ufer, Colorado State University

The Effects of Residue Tolerance on Pesticide Use, Hop Marketing, and Social Welfare

**Ruojin Zhang**, Washington State University

## 2026 Food Security and Consumption

Vineyard, 4th Floor

### Selected Presentation

This session examines the effects of income and food access on food security and consumption.

**Moderator:** Qihui Chen, China Agricultural University

Better Estimating How Food Price Shocks Influence Mexican Poverty Levels

**Benjamin D. K. Wood**, International Initiative for Impact Evaluation; Charles H. Nelson, University of Illinois at Urbana-Champaign; Rafael Garduno-Rivera, Centro de Investigación y Docencia Económicas, A.C.

Disentangling the Retirement-Consumption Puzzle through the Lens of Food Consumption - Evidence from Urban China

Tinghe Deng, China Agricultural University; **Qihui Chen**, China Agricultural University; Junfei Bai, China Agricultural University

Neighborhoods Matter: Variation in Food Insecurity Not Explained by Household Characteristics

**Olayemi Olabiyi**, Southern Alberta Institute of Technology

## 2027 Big Data and Precision Agriculture

Yarmouth, 4th Floor

### Selected Presentation

Presentations in this session evaluate the impact of information technology in agriculture.

**Moderator:** Joshua D. Woodard, Cornell University

Value of Information: Costs and Returns of Precision Corn Production in Livingston County, Illinois

**Edward Osei**, Tarleton State University; Huijun Li, Victoria College

Evaluating Economic Threshold for Dynamically Optimal Disease Management

**Yangxuan Liu**, Purdue University; Michael R. Langemeier, Purdue University; Ben Gramig, Purdue University; Paul V. Preckel, Purdue University; Ian M. Small, Cornell University; William E. Fry, Cornell University

Information Technologies and Field-level Chemical Use for Corn Production

**Jae-hoon Sung**, Iowa State University; John A. Miranowski, Iowa State University

Integrating Genomic Data into Crop Yield Distribution Estimation: Implications for Climate Change, Risk Management, and Plant Breeding

**Joshua D. Woodard**, Cornell University; Diane Wang, Cornell University; Anna McClung, U.S. Department of Agriculture; Lewis Ziska, U.S. Department of Agriculture; Tridib Dutta, Cornell University; Susan McCouch, Cornell University

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### **2028** An Introduction to Econometric Modeling using Stan

*Berkeley, 3rd Floor*

#### **Track Session – Econometrics Section**

Stan includes a programming language for expressing essentially any empirical model that is a differentiable function of the unknown parameters, which can then be estimated using one of the algorithms in the Stan Library. In particular, the Stan Library includes the most advanced implementation of Hamiltonian Monte Carlo, which allows researchers to efficiently draw from the posterior distribution of the unknown parameters given the known data. Alternatively, the mode of the posterior distribution can be found using conventional optimization algorithms. This talk will focus on the R interface to Stan and demonstrate how several popular regression models can be estimated using pre-written Stan code and will briefly outline how more complicated econometric models could be written using the Stan language.

**Organizer:** Jesse B. Tack, Mississippi State University

**Moderator:** Jesse B. Tack, Mississippi State University

**Presenter:** Ben Goodrich, Columbia University

### **2029** U.S.-Cuba Agricultural Trade: Past, Present, and Future

*Boston University, 3rd Floor*

#### **Track Session – International Section**

The U.S. government placed a partial trade embargo on Cuba in 1960 and a full trade embargo in 1962. However, the Trade Sanctions Reform and Export Enhancement Act (TSRA) of 2000 permit the export of agricultural, food, and medical products to Cuba on a cash-in-advance basis. Since then, U.S. exports expanded, reaching a record \$711 million in 2008 before falling to less than \$300 million in 2014. Cuba and the United States, re-establish diplomatic relation in December of 2014 and embassies reopen in Havana and Washington in July 2015.

Cuba made a major infrastructure investment on the Port of Mariel, which is being promoted as the Hub of the Americas. The Port of Mariel has four cranes capable of handling 850,000 TEUs annually and has the capacity of Post-Panamax shipping. This investment has the potential to increase agricultural trade between Cuba and United States

**Organizers:** Linda S. Calvin, USDA-Economic Research Service; Marco A. Palma, Texas A&M University; Luis A. Ribera, Texas A&M University

**Moderator:** Linda S. Calvin, USDA-Economic Research Service

**Discussant:** William A. Messina Jr., University of Florida

U.S.-Cuba Agricultural Trade: Understanding Its Past, Present, and Potential

**Bryce W. Cooke**, USDA-Economic Research Service; Steven S. Zahniser, USDA-Economic Research Service

Economic Impacts of U.S. Agricultural Exports to Cuba

**Luis A. Ribera**, Texas A&M University; Flynn J. Adcock, Texas A&M University; Daniel Hanselka, Texas A&M University

An Evaluation of Bilateral Agricultural Trade between the United States and Cuba under Normal Trading Relations

**Jonathan Coleman**, U.S. International Trade Commission; Sabina Neumann, U.S. International Trade Commission

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

### 2030 Food Safety Research and Big Data

*Brandeis, 3rd Floor*

#### Track Session – Senior and Econometrics Sections

What are the results of government investments in research? How do universities affect economic outcomes? These questions are beginning to be answered by an effort of the Committee on Institutional Cooperation (CIC) based on UMETRICS. The CIC was at first a consortium of 11 member universities. The foundation of UMETRICS is a common, large-scale, automated data platform on the research enterprise made possible by the Federal STAR METRICS project and massive advances in the methods and tools to combine, mine, and analyze big data on research. We evaluate outcomes of graduate students, post docs and alumni with research on food safety. The session will first address the UMETRICS data base, its content and how it has expanded to other universities. Next we will present issues related to food safety based on a workshop with leading scholars. The final session will report on econometric and related analysis of the data on food safety research and implications for industry results on food safety.

**Organizers:** Stanley R. Johnson, National Center for Food and Agricultural Policy; Alexander F. McCalla, University of California, Davis

**Moderator:** Alexander F. McCalla, University of California, Davis

**Discussant:** Stanley R. Johnson, National Center for Food and Agricultural Policy

Identifying Impacts of Food Safety Research: A Use for Big Data

**Kaye Husbands Fealing**, Georgia Institute of Technology

A Real World View on the Role of Food Safety Research Funding and its Outcomes

**Sandra Hoffmann**, USDA-Economic Research Service

Estimating Impacts of Food Safety Research on Job Placement, Salaries, and Patents

**John King**, University of California, Davis; Stanley R. Johnson, National Center for Food and Agricultural Policy

### 2031 Market and Public Policy Response to Pollinator Losses

*Clarendon, 3rd Floor*

#### Track Session – ENV Section

Since the emergence of colony collapse disorder in 2006, substantial attention has been paid to the role that wild and managed pollinators play in both providing ecosystem services and increasing horticultural crop yields. Although CCD's specific cause has not been isolated, concern that high over-wintering loss rates for bee colonies may permanently reduce pollinators stocks have raised calls to ban commonly used pesticides and subsidize pollinator habitat through the Conservation Reserve Program. This session considers the issues of honey bee health, pollinator losses, and possible remedies.

**Organizers:** Peyton M. Ferrier, USDA-Economic Research Service; Daniel M. Hellerstein, USDA-Economic Research Service

Impacts of Almond Market Conditions on Honey Bee Populations

**Hyunok Lee**, University of California, Davis; Daniel A. Sumner, University of California, Davis

The Impact of Honey Bee Losses on Pollinator Service Prices and Crop Markets

**Peyton M. Ferrier**, USDA-Economic Research Service; Randal R. Rucker, Montana State University; Wally Thurman, North Carolina State University

Factors Affecting Honey Bee Health

**Kathy Baylis**, University of Illinois at Urbana-Champaign; Dennis Van EnglesDorp, University of Maryland

Landuse and Pollinator Health: What Matters

**Daniel M. Hellerstein**, USDA-Economic Research Service; Claudia Hitaj, USDA-Economic Research Service; David J. Smith, University of Minnesota

## Concurrent Sessions – Tuesday, 9:45 - 11:15 AM

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### **2032 Soybean Expansion in the Tropics**

*Dartmouth, 3rd Floor*

#### **Track Session – AEM and LAS Sections**

Soybean has been the fastest growing grain crop over the last 15 years, growing at a compound average growth rate of 2.92%, outpacing the number two crop, rape, by 25% and the number three crop, maize, by 34%. Much of the soybean growth now occurs in the low latitude regions of the world. Soybeans have been successfully adapted to tropical growing conditions, where yields equal the temperate and sub-tropical regions of the United States, Argentina, and southern Brazil. Rising global incomes and urbanization, resulting dietary shifts to meat consumption, and preferences for food away from home, indirectly drive the demand for soybean, as a livestock protein feed and human food oil. Soybeans' high yield and nutrient density economically provide a key macro nutrient, protein, for livestock feed rations, along with an optimum balance of essential amino acids.

**Organizer:** Peter D. Goldsmith, University of Illinois at Urbana-Champaign

**Discussant:** Robert Bertram, U.S. Agency for International Development

**Panelists:** Jill L. Findeis, University of Missouri; Peter D. Goldsmith, University of Illinois at Urbana-Champaign; Peter Richards, U.S. Agency for International Development

### **2033 Towards Understanding Small Farm Profitability: Impacts of Market Channel Selection**

*Exeter, 3rd Floor*

#### **Track Session – CRENET and Senior Sections**

This session highlights recent research projects that each utilize U.S. Department of Agriculture-Agricultural Resource Management Survey (USDA-ARMS) data, the primary source of farm financial information, to understand the farm profitability impacts of sales through diverse market channels. The first paper uses the ARMS data to explore the determinants of small farm profitability in the U.S. The second paper examines the extent to which small farms are better off diversifying their income through different on-and off-farm diversification strategies. Finally, the third paper divides the ARMS sample of local and regional food marketers into high and low performing quartiles by net cash income to explore what operator, regional and production characteristics may vary among those farms that report the strongest (and weakest) financial outcomes.

**Organizer:** Becca B. R. Jablonski, Colorado State University

**Moderator:** Becca B. R. Jablonski, Colorado State University

**Discussant:** Todd M. Schmit, Cornell University

Determinants of Small Farm Profitability: How Important are Local Foods?

**Stephen J. Vogel**, USDA-Economic Research Service; Becca B. R. Jablonski, Colorado State University; Todd M. Schmit, Cornell University

Survival Strategies for Small Farms in the United States

**Ashok K. Mishra**, Arizona State University; James Michael Harris, USDA-Economic Research Service

The Financial Performance Implications of Differential Marketing Strategies: Exploring Farms That Pursue Local Markets and a Core Competitive Advantage

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

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### **2034** Where Are They Now? Research Updates from Graduates of the Behavioral Economics Workshop

*Fairfield, 3rd Floor*

#### **Track Session – GSS and FSN Sections**

The FSN-sponsored Behavioral Economics Post-conference Workshop received great positive feedback from young professionals. We selected four projects which were discussed during the mini-mentoring meeting at the workshop. As such, the first presentation will be investigating the ‘economics of hope’ in rural Myanmar. Specifically, the presenter will show results from a survey instrument designed to measure locus of control, self-efficacy, personal agency, and constraints on pathways. The second presentation will apply lessons from consumer psychology targeted toward developing more accurate choice experiments. The third speaker presents an experimental design and preliminary results from experimental research that tests whether farm operators’ behaviors depart from predicted risk-neutral, solely profit-maximizing entities in farm-to-school markets. In the fourth study, the researcher uses an experimental survey to measure the perceptions and preferences of direct-marketing farmers in regards to risk, liability and the Food Safety Modernization Act.

**Organizers:** Carola Grebitus, Arizona State University; Christiane Schroeter, California Polytechnic State University

**Moderator:** Julie A. Caswell, University of Massachusetts Amherst

Measuring Hope in Rural Myanmar: An Empirical Approach

**Jeffrey Bloem**, Michigan State University

How Lessons from Consumer Psychology can Create Better Choice Experiments

**Trey Malone**, Oklahoma State University

An Experimental Investigation of Social Preferences in Agri-Environmental Marketing Choice: Preliminary Findings

**Jill Ann Fitzsimmons**, University of Massachusetts; Daniel A. Lass, University of Massachusetts Amherst; John Spraggon, University of Massachusetts Amherst; Hernan D. Bejarano, Chapman University; Nathalie Lavoie, University of Massachusetts Amherst

Risk Preferences and Liability Decisions: A Survey of Direct-marketing Farmers

**Cristina Connolly**, The Ohio State University

### **2035** Extension Section Crops Outlook

*Simmons, 3rd Floor*

#### **Track Session – Extension Section**

This session continues the tradition of Extension Section Outlook organized symposium and will focus on crop situation and outlook. The presenters will discuss market conditions, supply, demand, and prices.

**Organizers:** John Michael Riley, Oklahoma State University; Suzanne D. Thornsbury, USDA-Economic Research Service

**Discussant:** John Michael Riley, Oklahoma State University

U.S. Corn, Situation and Outlook

**Thomas C. Capehart**, USDA-Economic Research Service

U.S. Soybeans, Situation and Outlook

**Mark S. Ash**, USDA-Economic Research Service

U.S. Wheat, Situation and Outlook

**Jennifer K. Bond**, USDA-Economic Research Service

U.S. Sugar and Suspension Agreement with Mexico

**Michael J. McConnell**, USDA-Economic Research Service

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### **2036** Teaching Tips from AAEA Winners

*St. Botolph, 2nd Floor*

#### **Track Session – GSS and TLC Sections**

This session offers the opportunity for AAEA Teaching Award recipients to share teaching tips and have a dialogue with AAEA members. The emphasis is on winning strategies that have worked for them; the approaches, techniques, and teaching styles they consider to be instrumental to their points, the emphasis will be on pedagogical approaches to improving education in our profession.

The goal is to share ideas on what successful teachers are doing in and out of the classroom to facilitate learning. Contributions from audience members, in the form of shared experiences, questions, and observations, are both welcomed and considered a key part of this organized symposium.

**Organizer:** Elizabeth A. Yeager, Kansas State University

**Moderator:** Elizabeth A. Yeager, Kansas State University

**Presenters:** W. Marshall Frasier, Colorado State University; Nicholas D. Paulson, University of Illinois at Urbana-Champaign; Richard J. Sexton, University of California, Davis