

BIG AG DATA CONFERENCE

Friday, January 10, 2020

9:00 a.m. **Breakfast** (Walter A. Buehler Alumni Center)

9:20 a.m. **Welcome:** Brian Wright, Director, Giannini Foundation

9:30 a.m. **The Economics of Water**

Chair: Katrina Jessoe, UC Davis

California Statewide Crop Mapping - All Crops, Everywhere, All the Time, Mica Heilman

Agricultural Adaptation to Water Pricing, Ellen Bruno

Use of Energy Data to Estimate Agriculture Groundwater Withdrawals: A Pilot Study, Jon Martindill

Discussion, Nick Brozovic

11:00 a.m. **Break**

11:10 a.m. **Economic Development**

Chair: Aprajit Mahajan, UC Berkeley

The Promise (and Pitfalls) of Using Mobile Phone Data in Development Research, Josh Blumenstock

Can Mobile Phone Data Identify Ultra-poor Households in Afghanistan?, Emily Aiken

Can Call Detail Records Predict Household Food Security Outcomes for Impact Evaluation in Haiti?, Travis Lybbert

Discussion, Arman Rezaee

12:30 p.m. **Lunch**

1:50 p.m. **Air Pollution**

Chair: Kevin Novan, UC Davis

Using Satellite Data to Estimate Air Pollution at High Spatiotemporal Resolutions, Dan Goldberg

Does Air Pollution Lower Productivity? Evidence from Manufacturing in India, Jamie Hansen-Lewis

Generalized Fiducial Inference: An Introduction, Thomas Lee

3:00 p.m. **Break**

3:15 p.m. **Agricultural Production**

Chair: Aaron Smith, UC Davis

The Value of Conducting On-farm Field Trials Using Precision Agriculture Technology, David Bullock

Digital Dairies, David Hunt

Farm- or County-level Crop Insurance? New Insights From Satellite Data, Matthieu Stigler

Causal Machine Learning in Economics, Colin Cameron

4:45 p.m. **Break**

5:00 p.m. **The Economics of Climate Change**

Chair: Maximilian Auffhammer, UC Berkeley

Can We Measure Agricultural Adaptation to Climate Change?, David Lobell

Assessing The Recent Impacts of Climate Change on Global Agricultural Production, Ariel Ortiz-Bobea

The Global Water Footprint of Distortionary Agricultural Policy, Tamma Carleton

Functional Data Analysis: A Primer, Alexander Aue

6:30p.m. **Reception & Dinner** (Manetti Shrem Museum)