**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

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