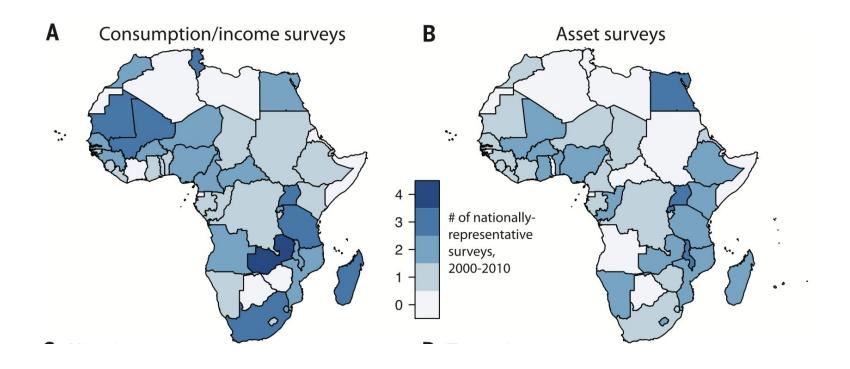
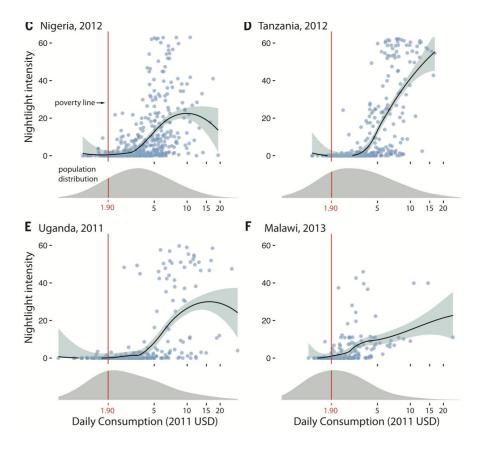
## Combining satellite imagery and machine learning to predict poverty

Neal Jean, Marshall Burke, Michael Xie, W. Matthew Davis, David B. Lobell, Stefano Ermon

Presented by: Srujay Korlakunta

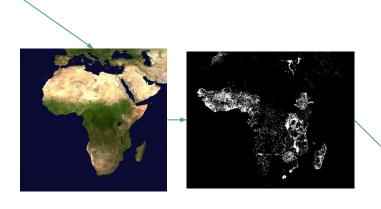


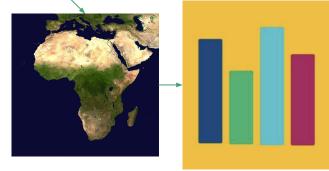
Density of Surveys in African Countries



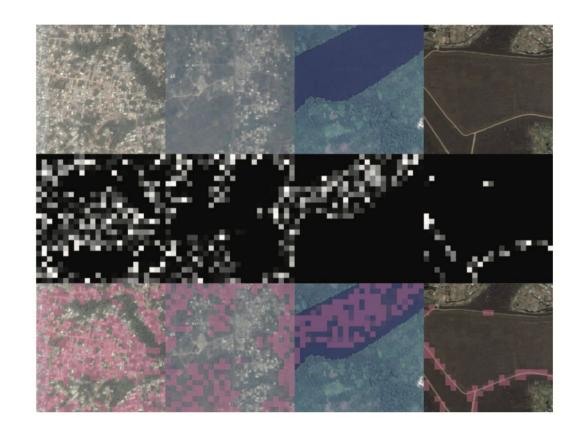
Relationship between Daily Consumption and Nightlight Intensity



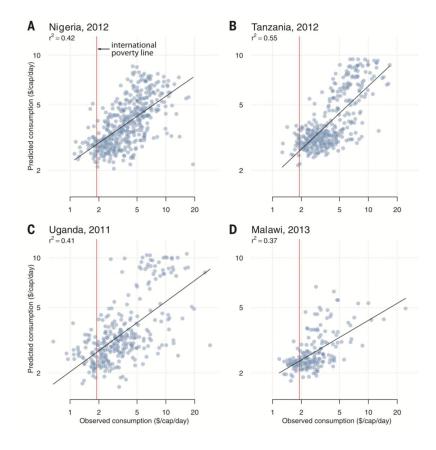




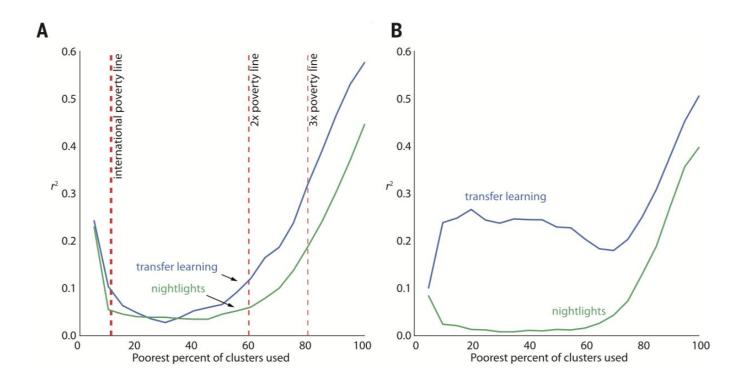
Transfer Learning Approach



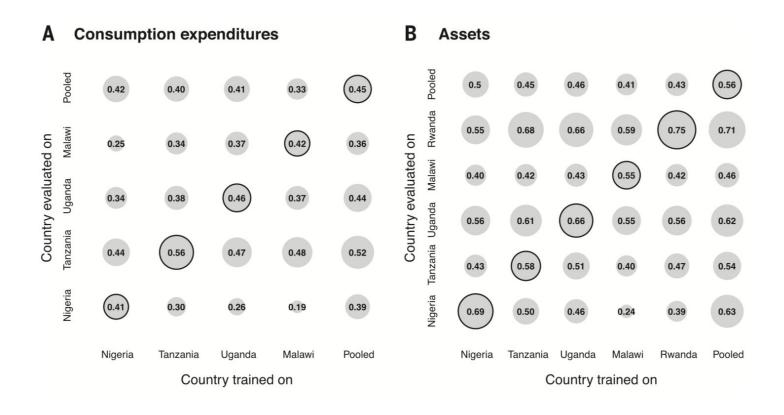
Visualization of Feature Maps



Predicted Consumption vs. Observed Consumption



**Evaluation of Performance** 



Evaluating country-specific models on other countries