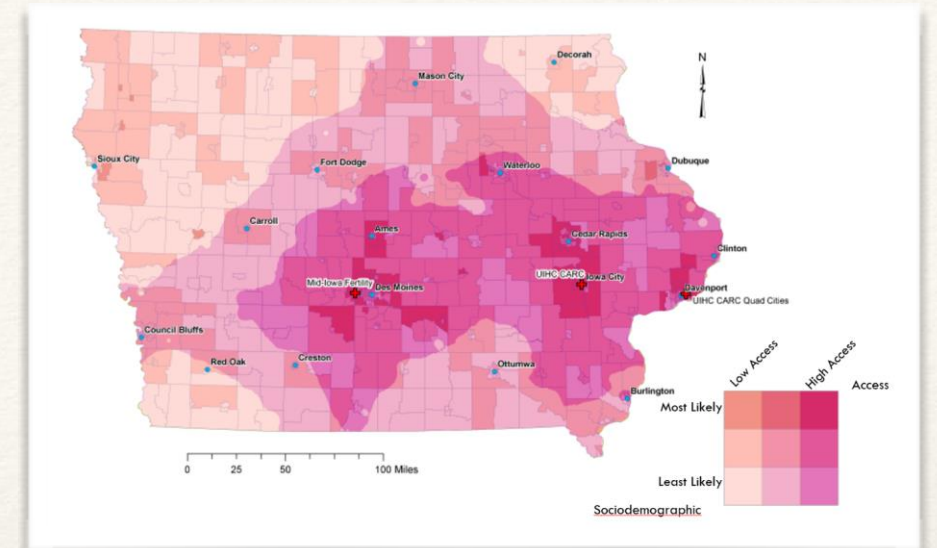


MPower Collaboration Retreat

*Osprey Point Retreat and Conference Center,
May 26-27, 2015*



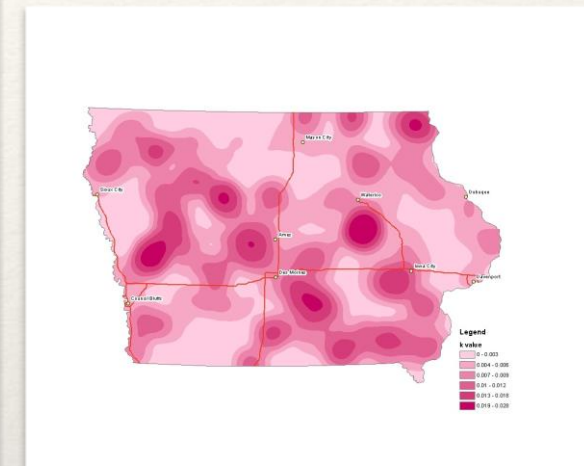
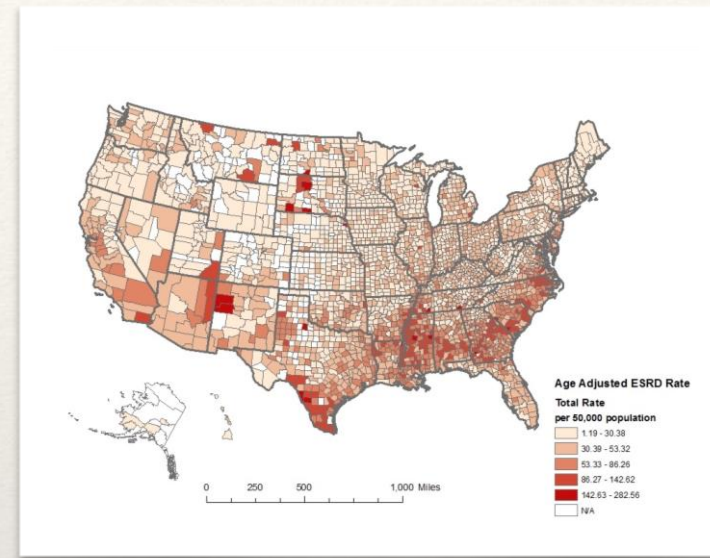
Kathleen Stewart
Department of Geographical
Sciences (07/2015)
stewartk@umd.edu

About me

- ❖ **Spatiotemporal GIScience**
 - ❖ Especially interested in analyzing and mapping **space-time change** and **movement**
- ❖ **Trajectory representation and analysis**
- ❖ **Space-time accessibility**
- ❖ **Geo-social media data analysis**
- ❖ **Big geospatial data**

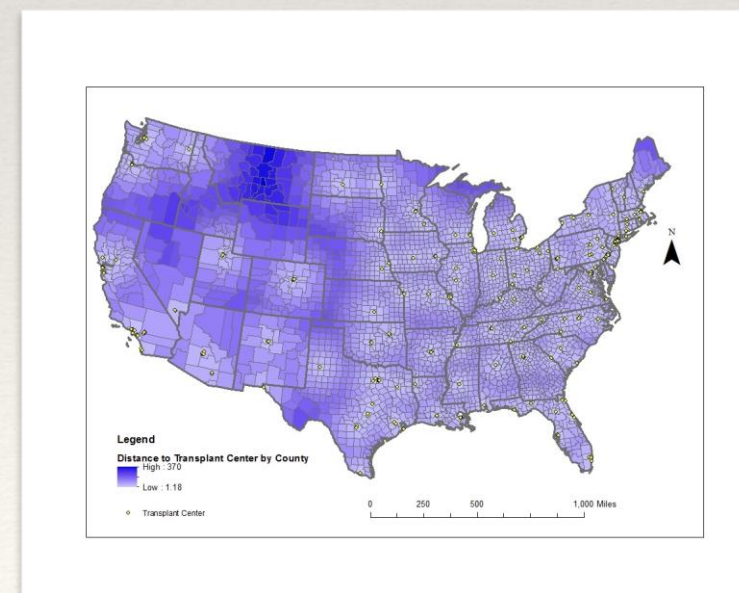
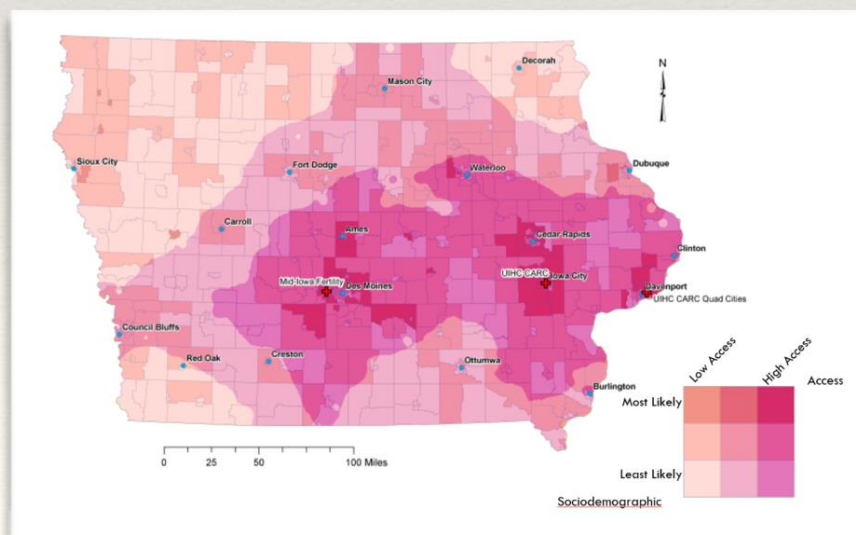
Geocollaborations with health researchers

- ❖ **Hotspots and cluster analysis**
- ❖ **Spatial autocorrelation**



- ❖ **Space-time accessibility**

Spatial accessibility enhanced with sociodemographic variables for IVF treatment

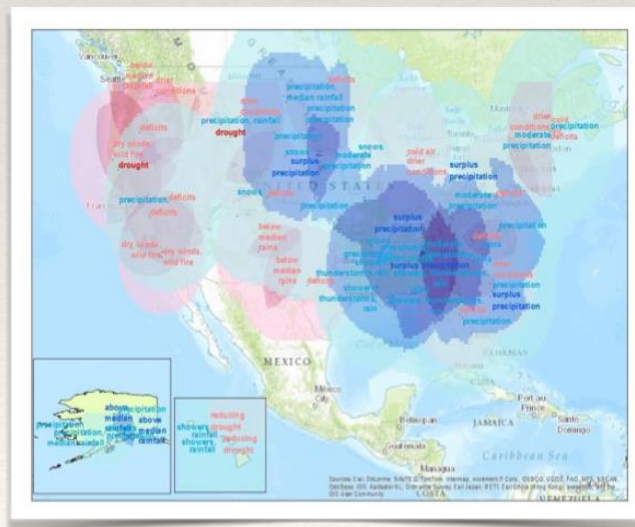
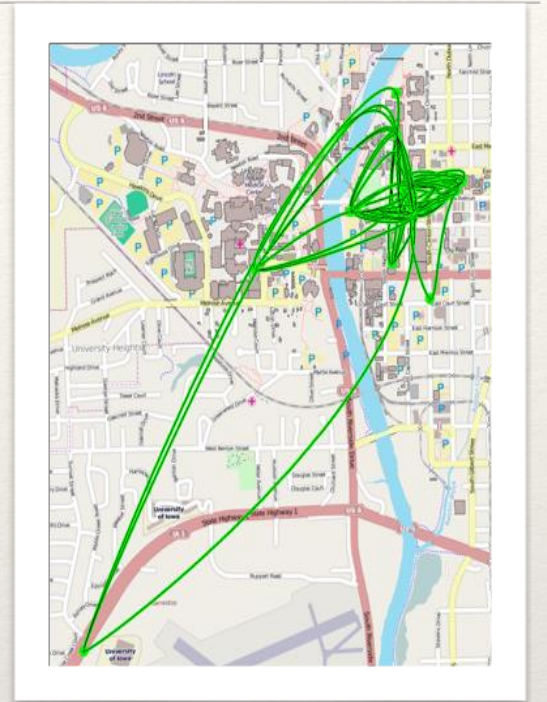


Accessibility for kidney transplantation (transplant centers plus donor service areas)

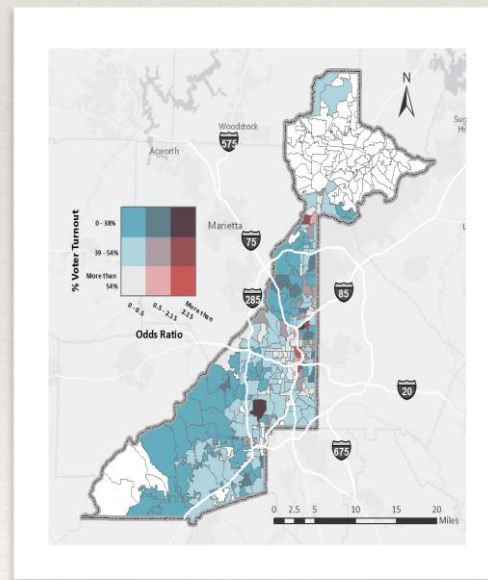
Longer-term collaborative interests

Movement trajectories

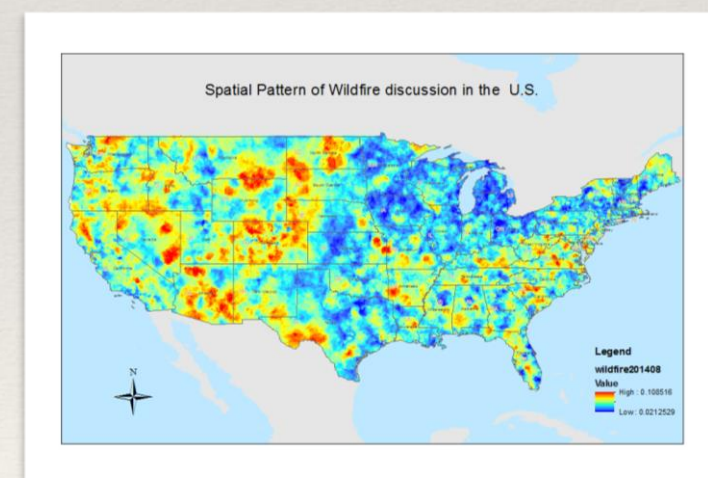
- ❖ paths, routes, zones, life course trajectories
- ❖ **Geo-social media analysis** (Twitter, FourSquare)
- ❖ **Geographic information retrieval**



Text analysis of
2013 drought forecast



Twitter data analysis of voter
behaviors in Atlanta 2014
midterm election



Wildfire potential estimated from
Wikipedia August 2014
knowledgebase