We would like to request high-resolution mobility big data in Franklin County, Ohio, and national mobility indicators across the United States to analyze the impact of COVID19 pandemic on mobility.

We are interested in:

1. The AADT datasets for the last year;

2. OD route, link analysis, and top routes before and after the pandemic outbreak;

3. Zone activity before and after the pandemic outbreak.

3. Inferred trip purposes data.

The project will be funded by Center for Urban and Regional Analysis at The Ohio State University.

We would like to collect different mobility indicators for multi-modal modes across different spatio-temporal dimensions and resolutions. We will conduct spatial, network, and mobility analyses based on these datasets. We are interested in datasets about overall traffic, walking, public transit, bike-sharing during the pandemic and the data one year ago for comparison and adjustment purposes. We would like to request high-resolution datasets in the area of Franklin County, Ohio, and national indicators at the national level for the analyses.

COVID19 is an ongoing struggle and will be eventually an important lesson for everyone; moreover, it is the first time that US society ever witnessed a total shutdown and a reboot. The impact of this event will persist for a long time. The requested datasets and the proposed analyses will be the first-hand proof to help us understand the impact of this pandemic on our mobility system. It is a perfect time to see what is resilient and what is not for different transportation modes and rethink about our mobility and city-planning policies.

https://geography.osu.edu/people/liu.6544 and <https://github.com/luyuliu>

Harvey J. Miller (advisor), Professor, Reusche Chair in Geographic Information Science, The Ohio State University

Ningchuan Xiao, Professor, The Ohio State University

High-resolution data: Columbus, Franklin County, Ohio, USA

National county-level mobility indicator: All USA