



Aim 1.1

Spatio-temporal analysis of HABMs and disparities

#visits, distance traveled, disparities, and fairness

Graph mining, clustering analysis, spatial-interaction models

Aim 1.2

Predictions of HABMs

General $\mathbf{h}(T + 1)$ and speciality-specific $\mathbf{h}(T + 1, F')$

Graph neural networks, multi-task learning

Aim 1.3

Incorporating privacy

Regions with DP guarantees \mathcal{R}'_{priv}

Dashboard



Public health and clinician team



General public