

## Using Big Data, Social Media, and Maps to Monitor COVID-19 Outbreaks in San Diego

**4/27/2020, Written by:** Dr. Ming-Hsiang Tsou, Director of the Center for Human Dynamics and Professor of Geography, San Diego State University. [mtsou@sdsu.edu](mailto:mtsou@sdsu.edu)

With the collaborations from the faculty, staff, and students at San Diego State University and our partners in San Diego, we are glad to announce the establishment of this Research HUB for COVID-19. The purpose of the COVID-19 Research Hub is to provide Analytics Dashboard and Maps to help both decision makers and the public to monitor the COVID-19 disease outbreaks in San Diego and to get a better understanding about the different aspects of COVID-19 disease spread patterns related to vulnerable population, population profiles, and health services in San Diego. So that the decision makers can identify potential problems in specific regions and re-arrange health service resources as early as possible. Our group applied both data science tools (visual analytics) and data visualization methods (maps) to enable this dashboard and maps to accomplish these functions and visualization.

As a cartographer and a data scientists, I want to emphasize that data visualization is a very powerful tool to help us make right decision at the right time. These web apps can help San Diegans to get a clear picture about the challenges and problems we are facing now in our local communities. It will also reduce the spread of wrong information and fake news in San Diego regions.

If you are interested in join this volunteered groups, please contact me at [mtsou@sdsu.edu](mailto:mtsou@sdsu.edu).

Sincerely,

Ming-Hsiang (Ming) Tsou.

Professor of Geography  
Director of the Center for Human Dynamics in the Mobile Age.  
Director of the Big Data Analytics Program <https://big.sdsu.edu/>  
San Diego State University

