

COVID-19 and Systematic Risk in New York City

Name of Student Mentor (s)

Dr. Cheila Cullen

Abstract (Limit between 150-200 Words):

According to city statistics, New York City (NYC) leads the U.S. in the number of confirmed coronavirus cases, with more than 190,000 citizens testing positive¹. Risk, impact and the capacity to cope are intrinsically related to many vulnerabilities. These vulnerabilities whether natural (gender and age), or social (ethnicity, household and social status) have led to disparities on how the virus has affected, and will affect, NYC. This project uses data analysis techniques and Geo Information Systems to model these disparities while providing a systematic risk approach for understanding the Covid-19 hazard. Students will present spatial-temporal models of the virus spread in NYC and model “areas at risk” in the case of resurgence.

Datasets:

Census data, Socioeconomic data, Health data.

Computer Skill

Summer Intern will work on QGIS, Excel, Python (optional), PowerPoint and Word

Benefits to students:

Summer Intern will benefit from learning data analysis and computer techniques, learning Geo Information Systems, and acquiring a cohesive understanding of risk and risk analysis

¹ <https://projects.propublica.org/graphics/covid-nyc>