



A restaurant adapts to the Covid-19 lockdown. Photo credit: halbergman/iStock.

Stimulus Relief Funds Increase Social Distancing to Stop Spread of COVID-19

Findings suggest economically vulnerable households need to leave the house more to work

As case rates of COVID-19 reach new heights across the nation, many states and cities are tightening stay-at-home restrictions to stop the spread. New [research](#) suggests that those suffering from economic hardships are less likely to comply with new stay-at-home orders; however, these same U.S. residents would be more likely to adhere to the new public health guidelines if their households received stimulus funds.

The results, published in the *Journal of Economic Behavior & Organization*, suggest that of the measures taken to address economic dislocation caused by the COVID-19 pandemic, the CARES Act helped reduce an important source of viral spread: social interaction.

In the new [paper](#), researchers from the University of California San Diego School of Global Policy and Strategy and the University of Chicago Harris School of Public Policy sought to accurately measure public willingness to abide by shelter-in-place ordinances first introduced in spring of 2020.

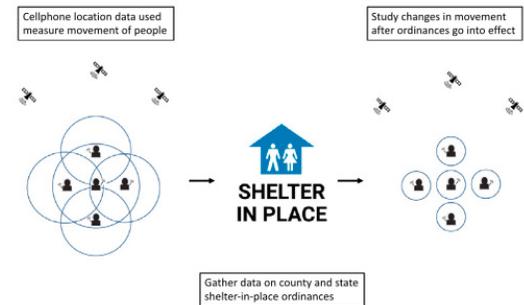
The researchers examined large quantities of geolocated cellular phone device use patterns. The data, provided by the analytics company UNACAST, estimate information such as the number of people who are living in a home, the average time spent at home or outside, and changes in the average distance a user traveled. This information helped the researchers assess compliance with stay-at-home orders.

To determine how economic conditions shape compliance, the researchers compared the cell-phone data to county records containing average household incomes for every county across the U.S. from February through July 2020. They also took account of other factors that might influence county residents' willingness to comply, including how severely each county was hit by the virus, unemployment levels, population density, partisanship and where residents get their news.

Counties with above median income comply with shelter-in-place policies with reducing movement by an additional 60% compared to before the policies were introduced; however, compliance with shelter-in-place orders in counties where the average income is below the median is uneven at best.

“Not surprisingly, impoverished communities exposed to economic dislocation are the least likely to comply with shelter-in-place policies,” said co-author [Jesse Driscoll](#), associate professor of political science at UC San Diego's School of Global Policy and Strategy. “The data showed that working-class families—especially those who had lost jobs or might soon lose them—were overall much less likely to stay home, since they needed to leave the house to work. The more urgent public policy question going into this winter is whether these behaviors changed when stimulus checks arrived last time.”

To assess how stimulus checks from the \$2.2 trillion CARES Act, passed in March 2020, impacted compliance, the researchers used the same cellphone movement data to determine whether household income increases changed behavior as more of a county's residents began receiving stimulus payments.



New UC San Diego research suggests that those suffering from economic hardships are less likely to comply with new stay-at-home orders; however, these same U.S. residents would be more likely to adhere to the new public health guidelines if their households received stimulus funds.

While some beneficiaries received their checks weeks ahead of others, the team was able to measure the impact stimulus dollars had on residents using data of recipients who used an electronic banking to deposit the funds, made available by the financial data company Factiveus.

The researchers found that local stimulus injections significantly increased social distancing. For every additional dollar per capita a county received, movement temporarily declined by over 1 percent.

“As counties received more stimulus funds, their residents stayed home more,” the authors write. “When they did head out, people in counties where most had received stimulus checks traveled less than people in counties where most checks had not yet arrived.”

The authors conclude, “Targeted economic relief such as direct stimulus transfers and increased unemployment benefits may have limited potential spread of COVID-19 among economically disadvantaged populations.”

Co-authors of the “[Poverty and economic dislocation reduce compliance with COVID-19 shelter-in-place protocol](#),” paper include Konstantin Sonin, Austin L. Wright of University of Chicago Harris School of Public Policy and Jarnickae Wilson of JP Morgan.

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