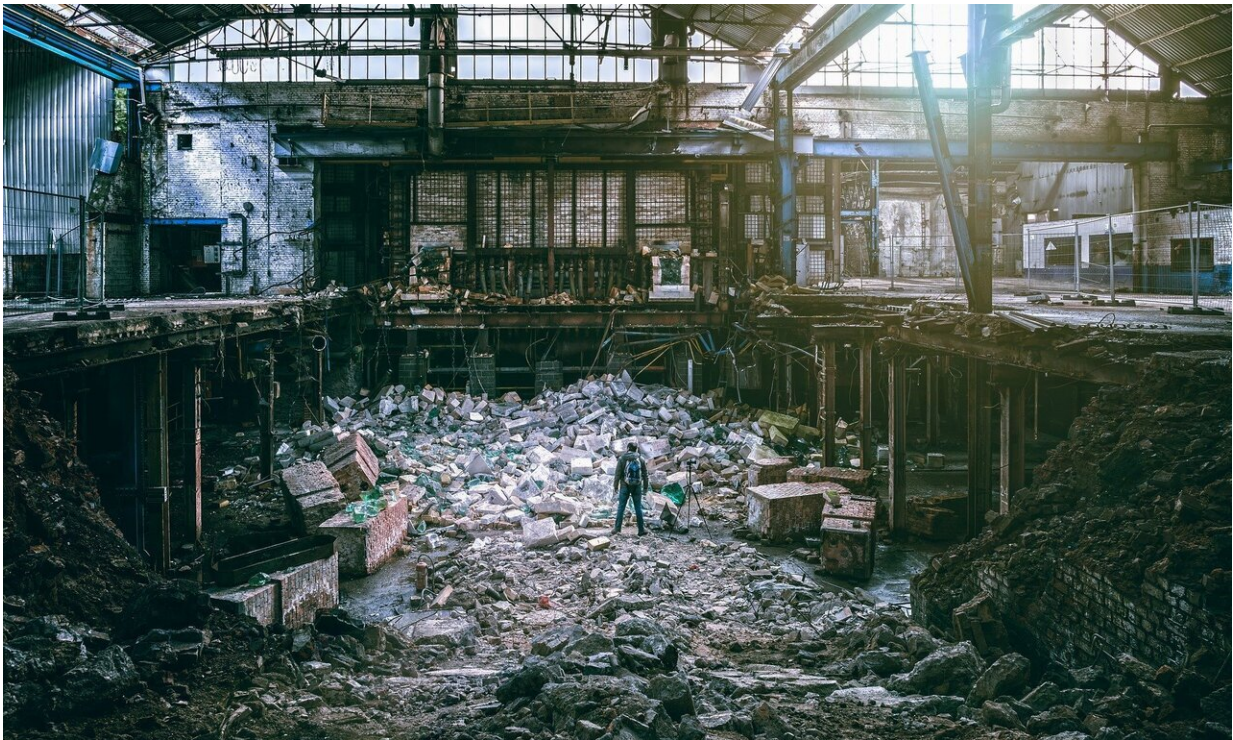


Study: 'Multiplicity of impact' from natural disasters affects Black people most

June 16 2023, by Amy McCaig



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The many personal, physical and social impacts of natural disasters disproportionately affect Black people, and such events can have political consequences for local governments regardless of constituents' political ideology, according to new research from Rice University.

Alex Priest, a doctoral student at Rice University, and James Elliott, a professor of sociology, are the co-authors of "The Multiplicity of Impact: How Social Marginalization Compounds Climate Disasters," published recently in *Environmental Sociology*.

In the paper, they explain how disaster impacts residency, transportation, health, employment and [social ties](#) by examining data collected following 2017's Hurricane Harvey by Rice's Kinder Institute for Urban Research and Department of Sociology.

"These disaster impacts create a uniquely extensive and multiplied set of challenges," Priest said.

Priest and Elliott theorize that Black people and their close family and friends were affected more significantly because racism has long excluded them from [equal access](#) to a wide range of social resources, including but not limited to housing, secure employment, reliable transportation, healthy environments and quality health care.

In addition, the researchers examined the reactions of affected individuals to local government's past, present and future efforts to protect Houstonians' homes from flooding. Many of these people also had family and/or friends who were impacted. The researchers asked [survey respondents](#) to rate how development regulations shaped the storm's impact, how well the local government protected Houston homes from flooding and how prepared the local government is for future natural disasters.

Responses overwhelmingly indicated that residents who were personally affected and who had family or friends affected strongly believed that additional regulations on development would have reduced [storm damage](#) and that local government did a poor job of protecting homes in general. Furthermore, respondents expressed these dissatisfactions

regardless of their [political ideology](#).

However, the researchers found that political ideology rather than people's experience during Hurricane Harvey shaped their view of local government's preparedness for future natural disasters.

"It could be that the longer one stretches their imagination into an unknown future, the more their political ideology influences their assessment of local government, rather than their recent experience of a catastrophic event," Priest said.

Priest and Elliott also believe conventional methods of assessing vulnerability and impact don't go far enough.

"Simply put, they focus too narrowly on physical consequences, such as housing damage, and unwittingly flatten our understanding of the widespread impacts of social marginalization," Elliott said. "The social impacts of a changing climate cannot be understood just by examining social vulnerability metrics and property damage assessments."

"More complete frameworks are needed to look at the many different ways in which disasters affect residents, particularly those within marginalized communities," Priest said. "By doing so, researchers and disaster managers can better address the inequality of climate-driven disasters."

More information: A. Alexander Priest et al, The multiplicity of impact: how social marginalization compounds climate disasters, *Environmental Sociology* (2023). [DOI: 10.1080/23251042.2023.2215592](https://doi.org/10.1080/23251042.2023.2215592)

Provided by Rice University

Citation: Study: 'Multiplicity of impact' from natural disasters affects Black people most (2023, June 16) retrieved 2 May 2024 from

<https://phys.org/news/2023-06-multiplicity-impact-natural-disasters-affects.html>

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