

# Review of: "How Urban Heat Islands Effect Crime: Understanding the Implications of Temperature, Population Density, and Green Canopy Cover in Shaping Built Environments"

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**Potential competing interests:** No potential competing interests to declare.

This article is well-crafted and effectively capture the essence of the research. The study focuses on the impact of urban heat islands on crime, specifically examining the role of temperature, population density, and green canopy cover in shaping built environments. It addresses a complex and incipient area of theory development, exploring the relationship between micro and macro-climates and criminal behavior.

The findings reveal limited positive correlations between long-term temperature, crime, population density, and green canopy cover. The analysis also indicates non-linear associations between climate variables (e.g., short-to-long-term climate-related stressors) and types of crime. Nonetheless, the paper emphasizes the importance of forecasting violence and crime trends by considering the attributes and potential impacts of heat and urban canopy cover on the built environment. This knowledge can inform sustainable social development policies, environmental planning, development strategies, and guide designers and planners. The recommendations provided are aimed at making urban communities adaptable to the impacts of global warming and future densification.

Overall, the paper is well-written and effectively communicates the research objectives, methods, and findings. The use of multiple research methods, including systematic review, meta-synthesis, and a case study, strengthens the comprehensiveness and reliability of the study's conclusions. The content of the paper is intellectually stimulating and offers practical insights for urban design and planning.