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RESEARCH AREA: Climate Adaptation, Environmental Justice, GeoAI



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Daniela Reséndiz García is a PhD candidate at the Urban Analytics Lab, Department of Architecture, College of Design and Engineering, National University of Singapore (NUS), supported by the NUS Research Scholarship. Her doctoral research sits at the intersection of spatial inequality, climate adaptation, and evidence-based policy, using spatial and computational analysis to strengthen the evidence behind more equitable, climate-resilient urban decision-making.

Her research agenda is grounded in professional and government experience in urban risk management since 2018. As national Director of Disaster Risk Reduction in the Government of Mexico, she coordinated her country's first mandatory national standard for disaster risk management and climate adaptation, and managed federal prevention investment. In an earlier role leading national reconstruction policy, she built a national inventory of high-risk zones and set the technical criteria used to reconstruct over 62,000 homes. Most recently, she has combined satellite data, social vulnerability indicators, and microclimate simulation to inform a major city's climate action planning. This trajectory, from policy design through implementation to applied research, is the direct motivation for her doctoral work on the spatial and climatic dimensions of urban inequality.

She holds an MSc in Space Syntax: Architecture and Cities from The Bartlett, UCL (with Distinction), and a BA in Architecture from the National Autonomous University of Mexico (Cum Laude), with additional training at the Architectural Association, London, and the University of São Paulo, Brazil.

She has been invited to present her research at the International Space Syntax Symposium and the International Seminar on Urban Form, and she has taught postgraduate courses on geospatial methods for disaster risk reduction and on risk governance. Her recognitions include the NUS Research Scholarship, a national graduate scholarship for her master's studies, among other awards for her research on urban risk visualization.