

**Engineering Solutions for Justice:
A Case Study of Electric Vehicles**
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Racial-ethnic disparities in exposure to traffic-related air pollution are well documented. Electric vehicles offer an opportunity to reduce persistent disparities in exposure and associated health risks by eliminating tailpipe emissions. However, an understanding of the root causes of transportation inequities reveals that electric vehicles cannot be the sole solution for advancing environmental and health equity. This talk will review the opportunities and limitations for reducing traffic-related air pollution disparities through vehicle electrification and lay out research and policy that go beyond technological solutions to comprehensively address the transportation system. This talk highlights how innovative, justice-focused solutions become possible when engineers ground technical work in its social and political embeddedness.