



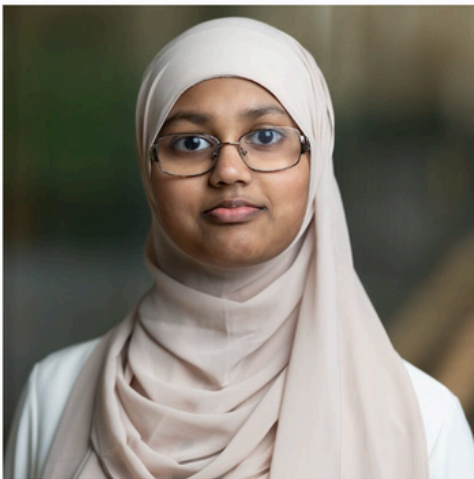
NATIONAL SCIENCE FOUNDATION (NSF) GRADUATE RESEARCH FELLOWSHIP



Award



Takiyah Ali



Takiyah Ali is a first year PhD student advised by Solomon Adera, assistant professor of mechanical engineering. Her research focuses on thermal management and two-phase cooling of high-power electronics.

As a member of the Energy Transport Lab, Ali is investigating and enhancing two-phase cooling strategies, such as phase change materials and pool boiling, that can help address thermal bottlenecks as a primary constraint in electronic design. These approaches utilize latent heat of phase change to provide superior cooling performance compared to traditional methods.

“Receiving this fellowship is a recognition of the dedication and effort I have applied to my research and academic pursuits,” Ali said. “I am truly honored to have been selected for this national award, especially as the first recipient from our lab. I would express my gratitude to my advisor, Solomon Adera, and my colleagues at the Energy Transport Lab for their mentorship and support. I am also grateful to my family for their encouragement and belief which have been fundamental to reaching this achievement. I look forward to continuing to grow as a researcher during my time at Michigan!”

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Class of 2022