

What will your fellowship research focus on?

My fellowship research will focus on advancing the science and decision-making capabilities towards equitable urban transitions under climate change, with a goal to transform our ability to advance human well-being, considering the unprecedented impacts of urbanization and climate change.

What is your project's expected contribution to your field?

My project is expected to deliver a novel understanding of generalizable aspects of spatial and social inequalities including boundary conditions, dimension-specific constraints, and future expectations, all of which are necessary to inform equitable urban transitions—and decision-making surrounding these transitions—considering urbanization and climate change.

What are your research interests?

My research interests are in urbanization and global environmental changes, remote sensing, geographic information, and complex systems sciences.

What led you to science and your specific discipline?

I am keen on discovering pathways that can simultaneously advance human and planetary well-being, and a firm believer in science bringing a transformative impact. Ongoing social processes offer significant opportunities but can be challenging to leverage especially with limited scientific understanding. With my research expertise, I seek to elucidate the nature of opportunities underlying urbanization as well as limiting constraints.

What did you do before coming to ORNL?

Assuming the role of a lead urban data scientist, I served the Urban Nexus Lab at the Department of Civil and Environmental Engineering and the M.S. Chadha Center for Global India, both housed at Princeton University.

Could you share an interesting fact or two about yourself?

Coming from northern India, I have a penchant for (vegetarian) street food, which I indeed miss in the United States. But, over the years I have spent here, I have discovered several hidden gems—just scattered across the country.

What nonscience topic or activity is important to you and why?

Besides spending time with my wife and son (a recent addition), I love to explore, and play on my guitar, diverse forms of contemporary music—from Trio Da Kali to Taylor Swift, from Johnny Cash to Slayer, from Indian classical to Indian folk metal. I find spending time with family and music very inspiring.

