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Research interests: cosmology, dark energy, black holes, large-scale structure, galaxy evolution

I am very interested in all aspects of cosmology, but particularly the multiverse theory is very appealing. Dark energy is still a mystery, but analyzing its cosmological role in Lambda-CDM based models can give new insights. I also believe that we can better understand the fundamental physics needed in cosmology models by studying black holes. For example, quantum gravity could be explored by examining black hole boundaries. Intrigued by these big ideas, I have been drawn to projects with cosmological goals, however I am an observer at heart. Therefore, many projects I have worked on, and an area I also hold close is galaxy evolution. Understanding how galaxies evolve and the large-scale structure of the universe allows the clock to be run backwards to still pursue the ultimate cosmological questions of where did we come from and how did we get here?

Scientists I'd like to meet: Leonard Susskind, Sean Carroll, Shep Doeleman, Alan Guth, Manuela Campanelli, Veronika Hubeny, Priyamvada Natarajan, many others!