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Research topic: Galaxy Evolution

Project: Study the suppression of star-formation in satellite galaxies in the local universe and at higher redshifts using observational and simulated data.

Questions to answer: Which physical processes are involved in shutting down star-formation in satellite galaxies? Are the processes internal or external?

Software/Codes utilized: Astropy modules, Scikit-learn and Keras.

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Some of my computational challenges include handling and analyzing large observational and simulated datasets. I hope to learn more about machine learning, performance optimization and supercomputing with the goal of eventually running my own simulations.