

A Computational Study of Interfacial Instabilities and Their Role in Star Formation
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With the Origins Program, NASA is making a bold effort to explore which lead to the creation of stars and planets, and ultimately life. Star formation is an area of research in which both observational and computational studies are advancing rapidly. In my research I will utilize state of the art computer codes to study nonlinear problems for which analytical solutions can not be found. Interfacial instabilities are a catalyst for star formation and large structures in ISM. Understanding these instabilities will increase our understanding of the origins of star clusters and planetary systems. This is a worthy project for NASA, and with NASA Space Grant support I will make a significant contribution to astronomy in the fulfillment of my research goals.