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*Modeling and Analysis of Social Networks*  
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The study of social networks has a long academic history. Analytic techniques initially developed by sociologists, psychologists, and anthropologists have evolved into exploratory techniques, modeling and simulation software, and statistical methods for analyzing networks. Networks in general and social networks in particular are now studied by physicists, statisticians, and computer scientists. At Duke, we are proposing and developing a new approach to computer science by studying topics that arise from social networks and modeling as an alternative to the traditional programming approach. This new approach is intended to attract the interest of a broader population than those currently interested in computing fields. This talk will demonstrate some of the techniques for modeling networks with power law distributions and analyzing their properties using graphical models.