Due date: Friday April 10, 2015 in class

- Pick one of the topics in the list below, or define your own.
- Inform me of your choice: Only one student per topic, first come first serve basis!
- Search literature for relevant papers. You can use MBW and/or ADS as starting points.
- Pick 2-4 papers that will form the basis of your term paper.
- A selection of observational papers only is NOT allowed.
- As a rule of thumb, pick papers with 10+ citations per year since publication.
- You are encouraged, but not required, to discuss your selection of papers with me.
- Read papers and work through them.
- Write a term paper (6-12 pages) summarizing your findings and analysis.
- Prepare a 20 minute presentation summarizing your Term Paper.
- Present presentation in class, and lead a discussion on your topic among the students.

List of Potential Topics

* Observational Constraints on the Shapes of Dark Matter Haloes
* Evolution of the Size-Mass Relation of Disk Galaxies
* Origin of the Mass-Metallicity Relation of Galaxies
* The nature of Damped Lyman Alpha systems
* Origin of the Cosmic Star Formation History
* The Impact of AGN Feedback on Galaxy Formation
* Constraining Dark Energy with Baryon Acoustic Oscillations
* Warm Dark Matter
* The Impact of Reionization of Galaxy Formation
* Dark Matter Annihilation
* Origin of the Morphology-Density Relation
* The Missing Baryon Problem
* Supernova Feedback in Numerical Simulations
* Supernova Feedback in Semi-Analytical Models
* Semi-Analytical Modeling of the Extra-Galaxy Background
* The Angular Momentum Distribution of Gas in Dark Matter Haloes
* Secular Evolution in Disk Galaxies
* What can Globular Clusters teach us about Galaxy Formation?
* Quenching of Satellite Galaxies
* The nuclei of elliptical galaxies