

1106-K1-234      **Joe DeMaio\*** (jdemai@kennesaw.edu). *Cycling Undergraduate Students through Graph Theory Research*. Preliminary report.

A significant hurdle when including undergraduate students in mathematical research is providing a problem which is quickly understood and offers the opportunity for progress without years of preparatory study. Graph Theory lends itself well to simply posed questions whose general solutions are NP-complete. By including additional constraints these same problems transform themselves into suitable undergraduate research projects. In this talk, I will share my experiences directing undergraduate research in the graph theoretic areas of domination, independence and Hamiltonian cycles. (Received August 13, 2014)