

*Student  
Seminar*

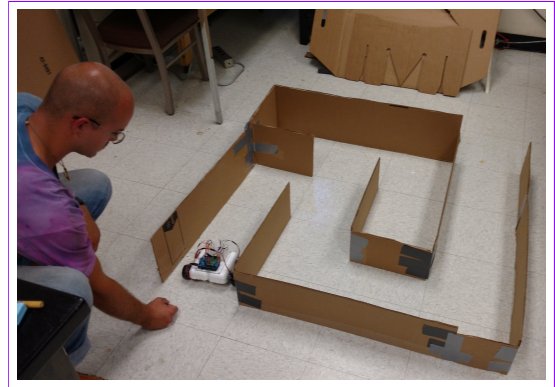
# *Pi Mu Epsilon*

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& GAMECOCK MATH CLUB

Computational Models for  
Human Memory:  
Applications to  
problem-solving on  
low-memory situations

by Ian McGuire  
USC Magellan Scholar



Ian McGuire

“How do organisms with limited memory solve complex tasks?”

This question may be the key to understanding the mechanisms of human memory on the neural level. To offer some insight on this topic, we are exploring computational models with enforced restriction on working memory. In this talk we discuss some of the mathematics behind our approach. We illustrate our findings with a simple robot that has been programmed to solve simple tasks while navigating a maze.

Ian McGuire is an undergraduate and USC Magellan Scholar. He is a Chemistry major with a minor in Neuroscience. His mentor is Dr. Francisco Blanco-Silva.

Tuesday 21<sup>st</sup> March 2017  
6:00 pm  
LC 310

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