

# The SUMO Speaker Series for Undergraduates

**Thursday, October 10<sup>th</sup>**

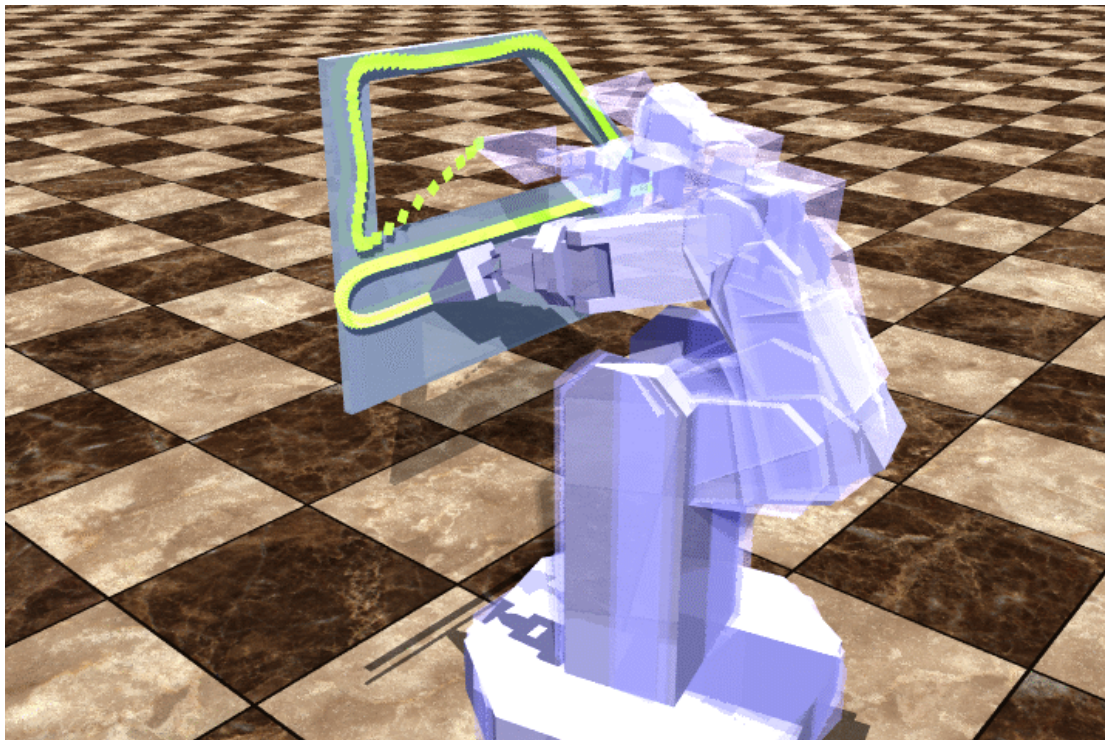
**4:15-5:05, room 380C**

*(Food Provided)*

## Robot Motion Planning

**Professor Satyan Devadoss**

**(Williams College)**



### ABSTRACT:

What is the space of all possible ways robots can move in a room? What happens when we place obstacles in their paths? We not only look at the important subject of robot motions but consider robot collisions as well. This leads to worlds of polyhedra, tilings, string theory, and phylogenetic trees. During this adventure, we relearn the ideas behind elementary multiplication, and grow comfortable drawing higher dimensions.

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