

Performance and Evolution of Market Networks

Faculty Member: [Shyam Sunder](#)

Proposal Description:

Economics Department and School of Management

In this project we shall develop software to create a variety of networked configurations of simple markets, populated by simple artificial agents. The purpose of the project is to investigate the performance characteristics of various type of market networks and a variety of conditions. We shall also examine how market networks evolve over time under pre-specified rules.

Requisite Skills and Qualifications:

Given the developmental nature of this software, we have chosen Python as the language for the project. The research assistant(s) must be proficient in Python coding and debugging. During the project, the performance data produced by a variety of market simulations will be analyzed using mostly Microsoft Excel software. Prior Excel or other data analysis skills would be helpful. The project involves approximately 10 hours of work each week.

Award: Michael Pei Lin

Haron Habte Adbaru

Tobin Application Link: [Tobin Application](#)

Project Type: Tobin RA

Project Year: 2020

Term: Spring 2020

Source URL: <https://economics.yale.edu/undergraduate/tobin-ra/spring-2020/performance-and-evolution-market-networks>