



## RESEARCH OPPORTUNITY: Task Switching Agent-Based Model Internship

### **Course Credit:**

Research Practicum registration #: 389 (COMM\_ST) or  
Independent Study registration #: 399-0 (IEMS)

### **Duration:**

Spring Quarter 2017 (possibly extended to subsequent quarters)

### **Location:**

SONIC Lab, Frances Searle Building 1-459  
2240 Campus Dr.  
Evanston, IL 60201

### **Organization Overview:**

The Science of Networks in Communities (SONIC) research group advances social network theory and methodology through the development of cutting-edge techniques to understand and enable networks in diverse communities. For more information, please visit <http://sonic.northwestern.edu/about>

### **Internship Description:**

The Task Switching Agent-Based Model Intern will work on building an agent-based simulation model for exploring the factors that affect astronauts' propensity to switch tasks in an isolated, confined, and controlled environment that mimics a space exploration environment. The intern will assist in coding the simulation model in Netlogo, analyzing empirical and simulated data, and conducting virtual experiments.

### **Required Qualifications:**

This position is open to current undergraduates enrolled in an accredited degree-seeking program at Northwestern, except for those who hold Chinese citizenship due to the contract with NASA. Candidates must be able to demonstrate close attention to detail, proficient writing/communication skills, analytic thinking, and emphasis on deadlines. We are looking for students with experience developing in Netlogo and a good working knowledge of social network analysis.

### **Preferred Qualifications:**

Ideal candidates will have a strong interest in social science research. Prior experience with research, independent projects, and knowledge of statistical methods are highly preferred.

### **Application Instructions:**

Please send a resume and a brief cover letter describing your interest in the position and programming skills/experiences to Patrick Park ([patrick.park@northwestern.edu](mailto:patrick.park@northwestern.edu)) in time for spring registration on March 31, 2017.