

## **Seminar: Agent-Based Modeling of Land Use Change in Developing & Developed World Contexts**

### **Presenter:**

Nicholas Magliocca, Computational Research Fellow, SESYNC

### **Time of Event:**

Tuesday, April 7, 2015 - 12:30

### **Location:**

National Socio-Environmental Synthesis Center (SESYNC)

1 Park Place, Suite 300

Annapolis, MD 21401

### **Seminar abstract:**

This seminar will provide an overview of Dr. Magliocca's past and current research projects involving the application of agent-based modeling to understand the causes and consequences of land-use change in both developed and developing world contexts. Human modification of the natural landscape through land use is a complex and multi-dimensional process, which results directly from human decision-making influenced by land-users' immediate surroundings as well as the regional and global settings in which local land-use decisions are embedded. By using this multi-scalar lens, commonalities and critical differences among land-use processes and outcomes in the developed and developing world contexts will be identified, and methodological advancements needed to make such comparisons will also be discussed. In addition, connections between Dr. Magliocca's various research threads and those of other SESYNC researchers will be highlighted.

### **Speaker bio:**

Dr. Nicholas Magliocca's research uses agent-based virtual laboratories to investigate the dynamics of human-environment interactions and their consequences for environmental and economic sustainability. A current project is investigating adaptive responses within the Baltimore-Washington region to repeated hurricane and heat waves through the integration of an agent-based model of land use change with a larger, integrated hazards, impacts, and resilience model. Nick also works with the GLOBE project, which developed an online collaborative environment that enables land change scientists and researchers to synthesize and integrate local and regional case studies to assess the global relevance of their work. At SESYNC, Nick provides simulation modeling and data analysis and usage support for funded projects. Nick received his PhD in Geography and Environmental Systems from the University of Maryland, Baltimore County in fall 2012 where he was a National Science Foundation IGERT fellow. He also holds a MS in Environmental Management from Duke University and a BS in Environmental Systems: Ecology, Behavior, and Evolution from the University of California, San Diego.

### **Event type:**

Seminar

**Associated SESYNC Researcher(s):**

[nmagliocca](#) [1]

**Event Attendance:**

Open to the Public

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