

GEOG 6/8000 Agent-based Modeling (ABM) of Complex Adaptive Spatial Systems

- Complexity theory
- Simulation theory
- Advanced geocomputation

- Open-source ABM platforms
- GIS-ABM integration
- Cyberinfrastructure-enabled ABM

Lecture



Lab

Domain-specific Applications

Land Use and Land Cover Change

Transportation

Pedestrian/Animal Movement

Disease Spread

Emergence

Self-organization

Adaptation

Space-time Hierarchy

Agent-based Modeling

Design

Development

Validation

Calibration

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When: 12:30pm-1:45pm (TR); **Where:** McEniry 420