

EITM Summer School

Interaction Topologies in Complex Social Systems: Agent-based Modeling

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Lars-Erik Cederman
Department of Government, Harvard University

Schedule:

10 am –10:30 am	Introduction to agent-based modeling
10:30am-12pm	Tutorial: Using Repast
1:30-3:30pm	Examples of agent-based modeling in the social sciences
4-5pm	Technical follow-up session (How to install Repast etc)

Readings:

Cohen, Riolo, and Axelrod. 1999. "The Emergence of Social Organization in the Prisoner's Dilemma" (SFI Working Paper 99-01-002). See <http://www.santafe.edu/sfi/publications/Working-Papers/99-01-002.pdf>

Cederman, Lars-Erik. 2002. "Endogenizing Geopolitical Boundaries with Agent-Based Modeling." *Proceedings of the National Academy of Sciences* 99, suppl. 3: 7296-7303.

Background readings:

Special issue on "Computational Modeling", *The Political Methodologist*, Fall 2001.

Cederman, Lars-Erik. 2001. "Modeling the Democratic Peace as a Kantian Selection Process." *Journal of Conflict Resolution* 45: 470-502.

Links:

These two course web sites provide further links to Repast and the computational literature:

<http://www.courses.fas.harvard.edu/~gov2015/>

<http://www.courses.fas.harvard.edu/~gov2016/>