

4.1 Cooperation and Social Dilemmas

Heckman Library 406C

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Keywords agent-based modeling, social sciences, computational methods

1. SESSION A (LECTURE)

Cooperation & social dilemmas (commons, reciprocity).

- Introduction to cooperation dilemmas: Prisoner's Dilemma, Public Goods, Tragedy of the Commons
- Game theory basics and payoff structures
- Applications to resource management and collective action

 [Introduction to Cooperation Dilemmas \(Slides\)](#)

2. SESSION B (SRG)

Discussion of readings.

1.  Axelrood (1984). "The Evolution of Cooperation". Basic Books, Introduction + Chapter 1.
 2.  Ostrom (1990). "Governing the Commons". Cambridge University Press, Chapter 1 excerpts.
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REFERENCES

- Axelrood, R. (1984). *The evolution of cooperation*. Basic Books.
Ostrom, E. (1990). *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge University Press. <https://doi.org/10.1017/cbo9780511807763>