

# CABDyN / INET Oxford SEMINAR SERIES

## Oxford Martin School – Michaelmas 2014

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### ‘Transforming knowledge and learning through agent-based modeling’

Uri Wilensky

Professor of Learning Sciences, Center for Connected Learning and Computer-Based  
Modeling, Northwestern Institute on Complex Systems, Northwestern University

**Tuesday 18<sup>th</sup> November, 12.30 -14.00**  
**Seminar Room 1, Oxford Martin School**

#### ABSTRACT:

The past two decades have seen a proliferation of computational agent-based models in science, business and policy. Such models enable connecting individual or micro-level behaviors with population or macro-level phenomena. Using agent-based representations can dramatically transform how we conceptualize knowledge domains and how we learn them. In this talk I situate the agent-based representation in the history of scientific representations. Drawing examples from the design and use of the NetLogo agent-based modeling environment, I make the case for agent-based representations as infrastructural to science and that it is time to initiate universal literacy in agent-based modeling.