

# Agent based modeling

Culture and more

# What to do today

- Who am I
- The course
  - What it is, and what it is not
  - Theory/practical
- Syllabus
- What do you expect?
- Test to login into the software

# Syllabus

## Agent-based modeling: An introduction to simulation and experimental methods

*Tuesdays, 1.30pm - 4.30pm*

Room: David Rittenhouse Labs (209 S. 33rd St), Room 3C4

Instructor: Alexander Funcke

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Course page: <http://0z.se/teaching/abm2015.html> (note: that is a zero)

Mailing list: <http://groups.google.com/group/ABM2015/>

# Syllabus: Instructions & evaluations

## **Instructions**

Please note that all readings are to be read critically. Further a short 1-2 paragraph summary is to be handed in before the start of the lecture for which it is due, either on paper or via mail.

## **Evaluation**

Class participation makes up for 30% of the final grade. Students are expected to be present, prepared and engaged. There will be a midterm project that will account for 40% of the grade, and lastly a final paper accounting for the remaining 30% of the grade. In the final paper students will be asked to extend the midterm project to a simulation scenario.

# Syllabus: Policy

There is no explicit requirement for attendance, but if you fail to attend central parts of the course you will score badly on both the participation and project pillar of your grade. Very badly. Apart from being present in class you are expected to contribute to a constructive discussion, be concise and polite.

Late assignments will not be considered, respect the deadline. If you have reason to believe you might

If you have any special needs, please be sure to communicate this as soon as possible.

# Syllabus: Academic integrity

In this class we follow the Academic Integrity Code:

“No one will cheat or plagiarize or tolerate those who do so.”

Any malpractice will be reported. Collaboration in the project segment is encouraged up until the actual production of the presentations and papers.

# Syllabus: Basic Theory Segment

Plan for the next weeks:

1. Introduction
2. Some classic models
3. What is good science?
4. Some classic experiments
5. What is a good model / experiment / simulation?

# Syllabus: Project

## Weeks

6. Discuss modeling of phenomena

7. Present a draft idea

8. Present the improved draft idea

9: A few classic simulation

10: Present draft simulation draft

11: Present updated simulation draft

# Syllabus: Misc. overview

## Weeks

12. Social networks

13. Social norms

14. Culture

# Your experience

Your experience with

- Models
- Experiment
- Simulation
- Programming

# Your expectations

What did you guys expect/want to learn?

# Log in to exp.zd.ee

Go to: <http://exp.zd.ee/>

username: funcke@sas.upenn.se

password: funcke@sas.upenn.se

# Phenomenon of interest?

Stereotypes

Dating

Charity

...