



# Agent-based modelling: 3 Day Course

## When and where?

20-22 November 2017  
Queen's University Belfast

## Who is it for?

While intended for public health researchers and social scientists, other professionals are welcome. No experience in computer programming is expected.

## Further information

Contact Sean Morrison at:  
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## What will you learn?

By the end of the course, you will be able to design and build an agent-based computer simulation in NetLogo for your own research question.

**ABM Theory:** Agent-based modelling (ABM) is a computer simulation method where individuals interact with each other and their environment.

- When to use an agent-based model
- Calibrating and validating your model
- Designing and running simulation experiments, and interpreting their results

**NetLogo:** Powerful, free, and easy to learn, NetLogo (U Wilensky 1999, <http://ccl.northwestern.edu/netlogo/>) is a specialised ABM programming language.

- Hands on tutorial building a health behaviour simulation
- Important elements of NetLogo language
- Good programming practices