The Centre of Excellence for **Public Health** Northern Ireland

cress
Centre for Research in **Social Simulation**

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: sean.morrison@qub.ac.uk.

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

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