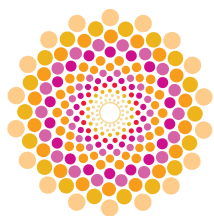


Demystifying Maths & Stats for Bioscientists

Programme at a glance

- + Day 1**
 - Industrial and scientific needs
 - Expectation setting
- + Day 2**
 - Data characteristics
 - Exploratory data analysis
 - Multivariate data analysis
 - Case studies
- + Day 3**
 - Spectral data analysis
 - Design of experiments
 - Statistical process control
- + Day 4**
 - Advanced analytical methods as sources of big data in biology
 - Synthetic biology challenges
- + Day 5**
 - Summary and evaluation
 - Future challenges within the sector



Registration Details

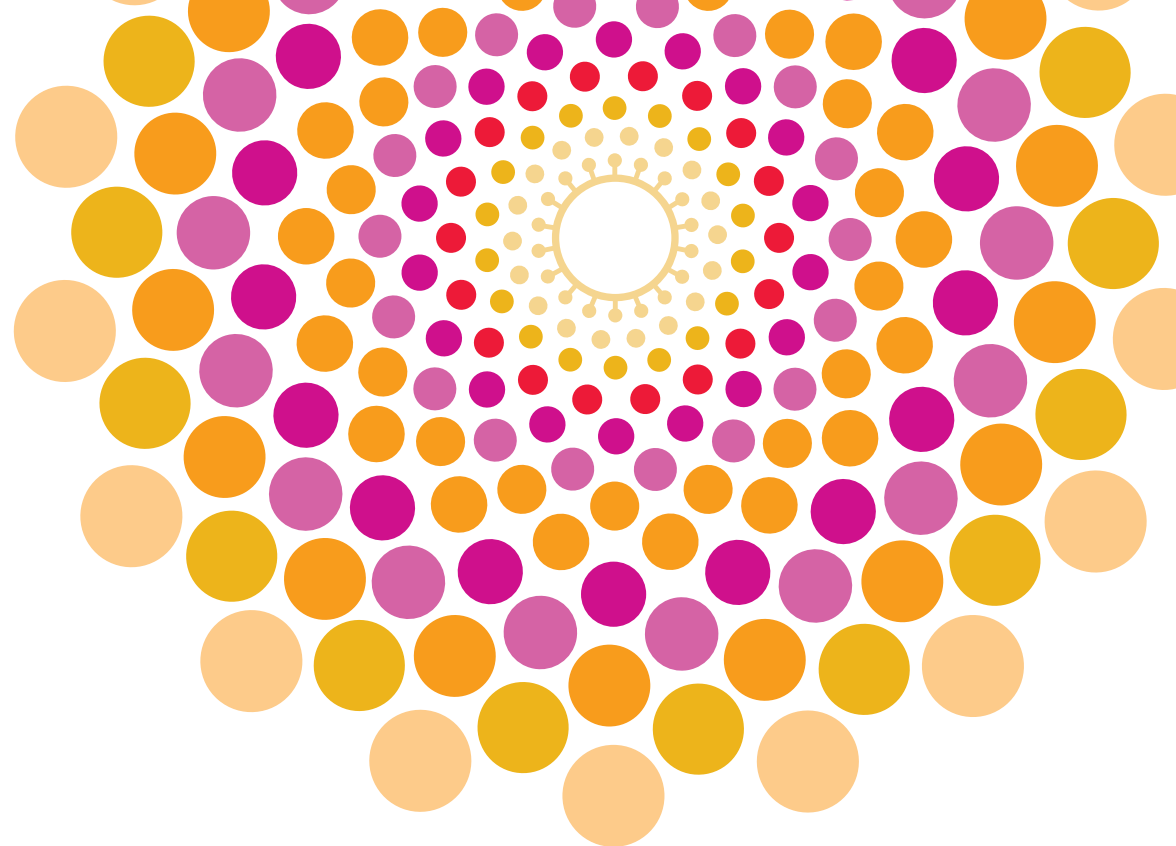
The course will be held at Newcastle University from **Monday 15th January to Friday 19th January 2018.**

Registration fees for students are £400 and for industrial participants £1000.

The fees cover full course materials and refreshments.

To register contact Jarka Glassey at Newcastle University

Jarka.glassey@ncl.ac.uk



Demystifying Maths & Stats for Bioscientists

+ A Short Course Supported by BBSRC



Demystifying Maths & Stats for Bioscientists

For many who are faced with a problem that requires the use of maths and stats it becomes an insurmountable hurdle.

In many instances this arises from teaching maths and stats out of context and a failure to utilise latest technology. With a broad awareness of the solution approach and exposure to the latest software tools, the fear can be overcome and significant advances made.

This course aims to teach the essential maths and stats tools and concepts that will enable research students and industrial practitioners to make a rapid impact in their chosen research area.

By placing the material in context of industrial and scientific needs, it will enable the participants to appreciate the sources of data and why the specific maths and stats approaches are required.

It will build on foundations gained at an undergraduate level and provide attendees a focused treatment of applied maths and stats using practical examples rather than through exhaustive theorems.

Active participation through case studies will re-inforce the understanding of the basic principles and the industrial/scientific relevance of the methods.

Confirmed speakers

- + Dr Harvey Branton
CPI
- + Dr Shirley Coleman
Newcastle University
- + Prof Jarka Glassey
Newcastle University
- + Dr Colin Gillespie
Jumping Rivers statistical consultancy
- + Prof Barry Lennox
Manchester University
- + Prof Gary Montague
Teesside University
- + Ewan Mercer
Perceptive
- + Prof Philip Wright
PVC, Newcastle University

