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## Maths in Action

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- Fermat's last theorem
- Drinking from the fire hose - data science
- Bad stats in the news
- Are we made of maths?
- Fighting disease with mathematics



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# Maths in ACTION

## Fermat's last theorem / [Simon Singh](#)

### Fermat's Last theorem

There are no three positive integers  $x$ ,  $y$ , and  $z$  for which

$$x^n + y^n = z^n$$

for any integer  $n > 2$

Simon Singh will describe the heroes and villains who tried and failed to prove Fermat's last theorem and tell the story of Professor Andrew Wiles, who conquered Fermat's challenge after working in secret for seven years.

Simon is an author and broadcaster. His books include Fermat's Last Theorem, The Code Book, The Big Bang, Trick or Treatment and most recently The Simpsons and Their Mathematical Secrets.



## Are we made of maths? / [Mark Lewney](#)



Does maths really exist, or is it just something people do? Is the unreasonable effectiveness of mathematics in the natural sciences something bordering on the mysterious with no rational explanation?

Dr Mark Lewney, the Rock Doctor, winner of the first ever FameLab competition and guitar physicist blows your ears with rock guitar and blows your mind with Superstring Theory.



## Drinking from the fire hose - data science / [Miranda Mowbray](#)

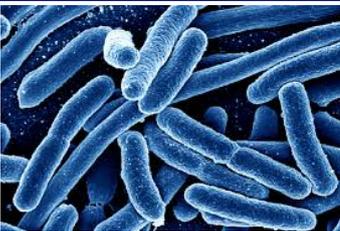


The data scientists who find useful patterns in large data sets have been described as the new rock stars of the technology world. Miranda will explore one particularly promising application area for data science; computer network security.

Miranda formerly worked as a research scientist for HP, finding new ways of analyzing data to detect attacks on computer networks. Her PhD is in Algebra, from London University.



## Fighting disease with mathematics / [Sara Jabbari](#)



Sara will describe the way mathematics can be used to understand antibiotic resistance, track the dynamics of bacterial infections and even develop new drugs to tackle disease.

Sara is a mathematician specialising in the modelling of networks of genes that respond to the inter-, intra- and extra-cellular signals that dictate cell behaviour.



## Bad stats in the news / [Matthew Scroggs](#)

Should you avoid using misleading data visualisation just to support your argument?

**YES**  
50%

Answers Other than 'Yes'  
50%

Can we believe everything we read in the papers? Matt will explore the way statistics is used and misused in the media.

When not working Matthew writes puzzles and articles for Chalkdust Magazine, including the infamous crossnumber, and reads Martin Gardner books.



## The Training Partnership

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