

**FREE** Year 10 Mathematics Enrichment Day

# Celebrating Women in Mathematics

**University of Greenwich**

**Pembroke Building, Medway Campus, Chatham**

**Thursday, 15<sup>th</sup> June 2017: 9:15 am – 3:30 pm**

---

**Dr Emily Grossman – Lies, Damned Lies and Newspapers**



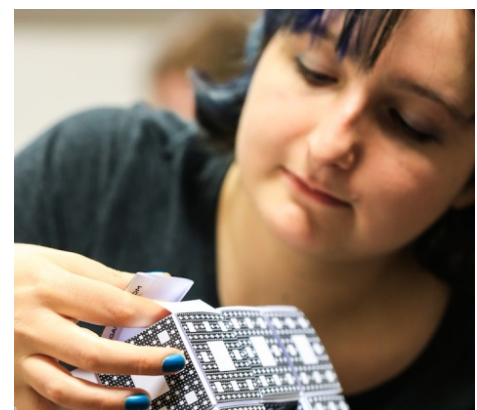
Dr. Emily Grossman is an expert in molecular biology and genetics, with a Double First in Natural Sciences from Queens' College Cambridge and a PhD in cancer research. She also trained and worked as an actress and singer, and now combines her skills as a science broadcaster, educator and writer. Emily teaches maths and science, explains science for a wide range of TV and radio programmes, and gives talks in schools, universities and at live events such as The Hay Festival, Cheltenham Science Festival, The Royal Society and The Science Museum. She is best known as a resident expert on ITV's The Alan Titchmarsh Show and Sky1's fact-based celebrity panel-show Duck Quacks Don't Echo hosted by Lee Mack, and for her fun science YouTube videos for BBC Britlab and The Royal Institution.

Emily is also a passionate advocate for gender equality and diversity in STEM and she has come under considerable attack on social media for speaking out against sexism in science. <http://www.emilygrossman.co.uk/>

## Dr Katie Steckles - Paper Folding and Problem Solving

Dr Katie Steckles graduated from the University of Manchester in 2011 with a PhD in Mathematics and has been working in outreach since 2009. Her area of study is topology and dynamic systems, but she greatly enjoys talking about all areas of maths, to groups of all ages.

She has taught Mathematics Masterclasses for the Royal Institute, and regularly performs at science fairs and festivals up and down the country. Her favourite mathematical object is the Klein bottle and in her spare time she enjoys cross-stitching computer game characters and solving the Rubik's cube at increasing speeds.



## Dr Jennifer Rogers - Yeah, But Is It Significant?

You've just tossed a coin ten times and eight of them were heads. Aston Villa win their next five games of the Premiership season. In clinical trials for a new treatment for chronic headaches, 40% get better within 24



hours. But so what, sometimes these things happen just by chance, right? As a statistician, Jennifer's job to decide whether any differences she sees in data are likely to be just by chance, or whether they are 'statistically significant'. But how much evidence do you need before you can say that what you see is significant and how do you untangle causality from chance? Dr Jennifer Rogers has appeared as an expert statistician in the TV programmes Long Live Britain and Mystery Map - in which she calculated the

chance of dying from spontaneous human combustion!

Jennifer is the Director of Statistical Consultancy Services, Department of Statistics, University of Oxford.

## Noel-Ann Bradshaw - Data-driven decision making: from Florence Nightingale to today

Noel-Ann Bradshaw lectures in mathematics and data analytics at the University of Greenwich and is Vice President Communication for the Institute of Mathematics and its Applications. She has given many talks and workshops to school-aged students and is keen to promote the usefulness of mathematics in a very wide variety of careers



**Link to book:** <http://bit.ly/CWIM2017>

### Important Information:

- **Please try to encourage prospective A level maths and further maths candidates to attend.** These may not necessarily be your top students, but those who may need a little persuasion!
- This event is aimed at encouraging girls to consider further study of mathematics and we anticipate that most students attending will be girls, however, we have no objection if you want to include some boys from your school too 😊
- This event is being organised by the Further Maths Support Programme (FMSP) and schools taking part must be registered. This is free, quick and simple from [www.furthermaths.org.uk](http://www.furthermaths.org.uk)
- An adult from each school must accompany and be responsible for students throughout the day. Lunch and refreshments will be provided for adults, but students will be expected to provide their own.
- The campus is a reasonably safe environment; however it should be understood that students will be required to act and behave safely and responsibly.
- Cars and mini-buses parked on the site will need a parking permit and we will need your registration number at least one week beforehand.
- For further information please contact Derek Couzens – [derekcouzens@furthermaths.org.uk](mailto:derekcouzens@furthermaths.org.uk) or Alison Terry (Area Coordinator) – [alisonterry@furthermaths.org.uk](mailto:alisonterry@furthermaths.org.uk)