Risk and Predictability - Where Might Modern Mathematics Take Me?

Offer-holder Visit Day, March 2020

(Prof Jon Forster, Dr Jere Koskela, Dr Tessy Papavasileiou)
Welcome to the offer-holders open day

Offer-holders for 3 degree courses:

- Data Science
- Mathematics and Statistics
- MORSE

... and parents or other accompanying persons!
The purpose of today

A varied programme of events, which we hope will:

• Inform you.
• Inspire you.
• Help you to make the decision that is right for you about which university offer to accept.
Schedule

11:00-11:50 Talk | Risk and Predictability | Where Might Modern Mathematics Take Me?" Opportunity for questions.

12:00-13:00 Lunch
   Information about Careers, Funding, Admissions and Wellbeing.


14:00-15:30 Campus tour led by current students / Small group meetings with academic staff

15:30- Tea, and more information
Where might modern mathematics take me?

Some things to know:

• Mathematics - and especially Statistics - becomes much more interesting at university level.

• The demand for well-rounded maths graduates remains absolutely buoyant, everywhere in the world.

• Demand for our kind of maths, especially so!

*Our kind of maths?* Probability, statistics, operational research, mathematical finance, machine learning...

These are the most sought after areas of mathematics in the world at large.

In this talk we mention just a few of the exciting application areas for modern mathematics.
Destinations of our recent graduates

A wide range of:

• management consultancy
• investment banking
• medical, social or economic research
• academia
• market research
• ‘big data’ in commerce, science, government, . . .
• insurance and actuarial work
• software engineering
• engineering consultancy
• sport, entertainment

More details on employment statistics and careers in the flyer in your pack
Some recent student projects

• Forecasting Sleep Apnea
• Portfolio Management Under Uncertainty
• Evaluating changes in attitudes experience and accident risk in novice drivers
• Comparison of population based Monte Carlo methods
• Mobile Health Analysis
• Statistical inference of stochastic differential equations
• Game-theoretic modelling of cybersecurity
• Erdos-Kac theory and Mod-Poisson convergence
• Exponential random graphs modelling
• On the complexity and behaviour of crypto currencies compared to other markets