Warwick Statistics

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.

13:00-13:45 Talk "How to solve it? Examples from STEP and A-level papers", Opportunity for questions.

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-theoretric 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