



Advanced Mathematics
Support Programme®

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



Nira Chamberlain and The Monte Carlo Simulation

22nd January 2022

Overview

Our Winter Core Maths Festival is comprised of six inspirational talks by seven inspirational speakers. We hope that these will enthuse, challenge and enlighten you and offer a springboard to the creation of fantastic contextualised maths lessons.

Who will benefit from attending?

These sessions are designed to appeal to all maths teachers, regardless of how much experience of Core Maths you have had, if any.

We strongly believe that greater collaboration across departments can be hugely beneficial for students and encourage you to invite your science and social science colleagues to this talk.

Presenter



Dr Nira Chamberlain

President of the Institute of Mathematics and its Applications

Content

The first talk in our Saturday double-bill is the incredible, Dr Nira Chamberlain. Nira is President of the Institute of Mathematics and its Applications and has over 25 years experience writing mathematical models and simulation algorithms that solve complex industrial problems. All students will learn how to use mathematics to predict the future, but for a lot of them this will be limited to the outcome of coins being flipped or playing cards being selected. Yet, these same students will also be using the results of complex probability analyses regularly - from weather forecasts to video games and artificial intelligence to fantasy football leagues - and all these applications use Monte Carlo simulation methods to determine the best predictions.

In this eye-opening session, Nira will guide you through the fascinating mathematics of the Monte Carlo method and explain why he is fascinated by this much used yet little-known branch of probability theory.

Materials and Equipment

During the session, there will be opportunities to ask questions via the chat function on the platform but microphones and webcams are not necessary.

Eligibility

This course is free for teachers from state-funded schools, colleges and academies in England. Teachers based in other parts of the UK or in independent schools and colleges may apply, but places will only be allocated if there is availability

Cost

The sessions are free of charge to all teachers in England.

Key Facts

Event ref:	#9094
Audience:	Teachers
Curriculum focus:	Core Maths, A level Mathematics
Mathematical focus:	Problem solving
Event format:	Live Online Professional Development
Event length:	1 hour
Online sessions:	6
Region:	National
Date:	Sat 22nd Jan 2022
Course times:	09:30 - 10:30
Fee:	Free for teachers in England

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9094>