Computer Science in ACTION

Midlands

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2025

Computer Science in Action

For A-level, IB, BTEC Level 3 and T Level computer science students

Join us this autumn for an action-packed day exploring the world of computer science! Through high-energy, interactive sessions, students will dive into cutting-edge research, tackle real-world tech challenges, and discover just how exciting computer science can be.

Our incredible speakers—from leading academics to industry innovators—will showcase the power of technology, revealing its impact on everything from AI to cybersecurity. We want students to see that computer science is shaping the future—and they can be part of it!

A special Exam Success session will provide students with expert strategies to boost confidence and exam performance. With live polls, quizzes, and plenty of opportunities to engage with speakers, this is computer science like never before.

Host: Dr Emma Byrne (Science Writer and Communicator)

Exam Session: Prof Matthew Leeke (University of Birmingham)

- From Zero to Cloud: How will you stand out?
- If you aren't paying, you're the product – how you're secretly working for Big AI
- Reimagining Smart Cities
- Can we teach a computer to read?
- Understanding Cyber Attacks

University of Warwick,
Coventry,
CV4 7AL

Venue: £24 +VAT *

Plus one COMPLIMENTARY staff ticket per 10 students.

*VAT may be reclaimable. Please check with your finance department

Education in Action is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

Award-winning, world-class speakers
Cutting-edge content
Thought-provoking demos and presentations
Examination hints, tips and guidance
Modestly priced to offer access to all
Complimentary staff ticket for every 10 students booked
Bookings can be amended up to 28 days before the event day

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From Zero to Cloud: How will you stand out? /
Caleb Oniwinde – Cloud Engineer and Tech YouTuber

Cloud computing is at the heart of today's tech industry, powering everything from apps to AI solutions. In this session, Caleb will break down its key concepts, show you how to start learning, and share his journey. Learn how mastering cloud can unlock incredible career opportunities and how to stand out in the competitive tech world!

Caleb is a cloud & cybersecurity engineer, tech youtuber and AWS community builder dedicated to inspiring future tech talent through engaging talks, educational content, and industry collaborations that empower individuals to stand out and succeed in tech careers.

If you aren't paying, you're the product – how you're secretly working for Big AI /
Emma Byrne – Science Writer and Communicator

From CAPTCHAs to conversations, from social media to stolen books and films, is Big AI making us all into digital serfs? Let's take a deep dive into the world of AI with Emma Byrne!

Emma Byrne began her research career in computational neuroscience in the early 2000s. She is also an award-winning author and broadcaster on the topics of AI and neuroscience, and is the recipient of the 2025 Rosalind Franklin Lecture medal.

Reimagining Smart Cities /
Matthew Leeke – School of Computer Science, University of Birmingham

By 2050 we will have 7 billion people living in urban areas. What happens when the global population puts cities at breaking point? Starting from the humble beginning of an undergraduate lecture theatre, we will explore how to leverage machine learning and smart devices can solve some of the biggest problems facing our cities.

Matthew is a Professor and Deputy Pro-Vice-Chancellor at The University of Birmingham. He joined Birmingham as Chair of Dependable Systems in 2022, having spent 18 years at The University of Warwick.

Can we teach a computer to read? /
Tishtrya Mehta – Scientist, Medicines and Healthcare Products Regulatory Agency

Join us on a journey through the evolution of what language means to a computer- from binary beginnings to today's tools, like ChatGPT. We'll explore how Natural Language Processing can be used to encode meaning, what this means for us, and why the way we speak to machines might shape how they speak back.

Tish is a scientist working on improving access to critical medicines in low-income countries. As a former data scientist and astrophysicist, where she worked on decoding the music of the Sun, she's passionate about opening up science to wider audiences through storytelling.

Understanding Cyber Attacks /
Harjinder Singh Lallie – University Reader (Cyber Security), University of Warwick

How do threat actors conduct complex cyber attacks on some of our top industries and critical infrastructures? This talk aims to demystify and explain how threat actors operate and explains several complex well known cyber attacks. The talk will also introduce the domain from a career opportunity perspective.

University Reader at Warwick and Director of the Academic Centre of Excellence in Cyber Security Education. PhD in Cyber-Attack Modelling, widely published, journal reviewer, course developer, external examiner, and experienced leader in cyber security and digital forensics education.

Education in Action

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