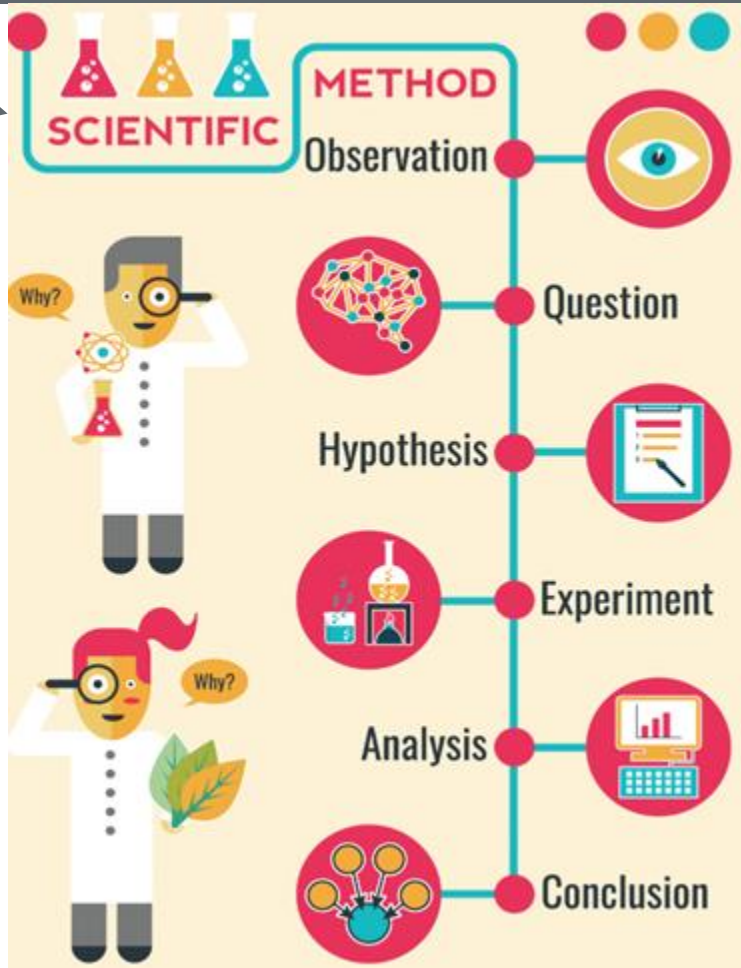
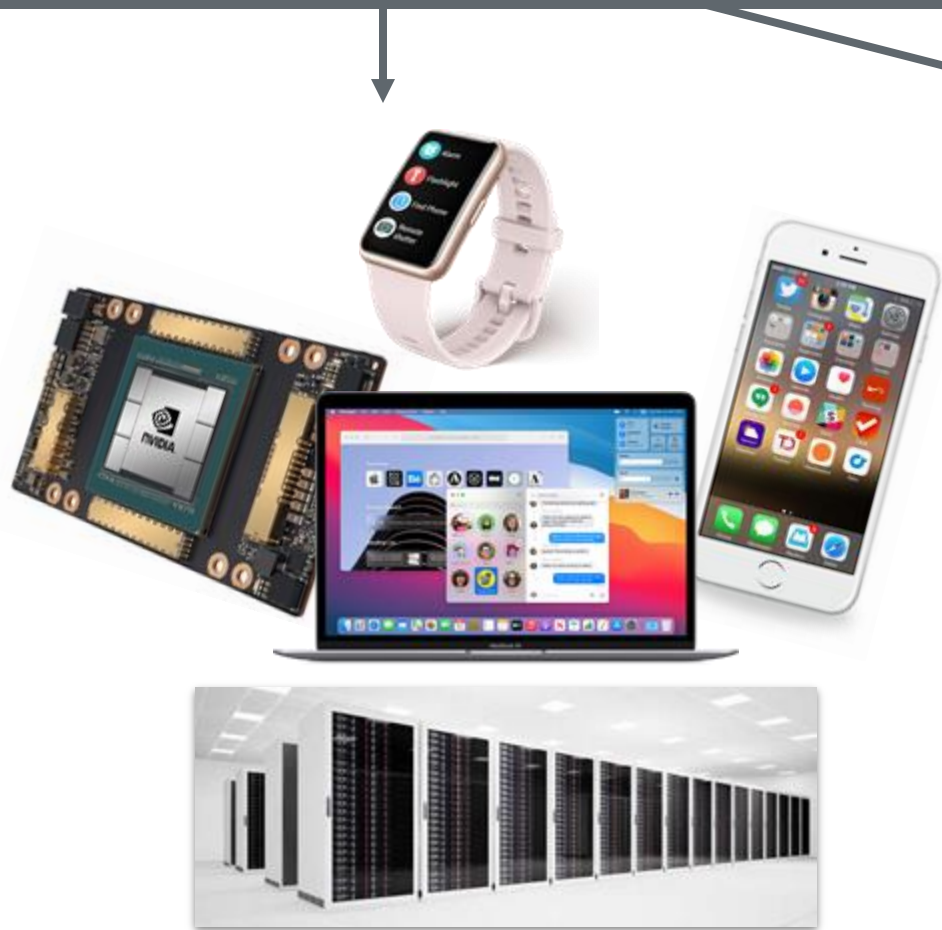


Computer Science at Durham University





What is computer science?





BSc in Computer Science (G400)

- 3 Years
- Standard offer: A*AA including Maths

MEng in Computer Science (G406)

- 4 Years
- Standard offer: A*AA including Maths

BSc/MSci in Natural Sciences (CFG0)

- 3/4 Years
- Standard offer: A*AA including Maths





Year 1

Foundational knowledge

- **Programming**
Javascript, high-level concepts...
- **Mathematics** for Computer Science
Logic, proof, probability, calculus...
- **Computational Thinking**
Python, problem solving...
- **Algorithms** and **Data Structures**
Search, sorting, path finding...
- **Computer Systems**
Architectures, operating systems...

Year 2

Core knowledge

- **Programming Paradigms**
C, C#, functional programming...
- **Artificial Intelligence**
Machine learning, bias in AI...
- **Theory of Computation**
Complexity, Alan Turing's work...
- **Networks and Systems**
Web technologies, cyber security...
- **Data Science**
Statistics, visualisation...
- **Software Engineering**
Group work, industry exposure...

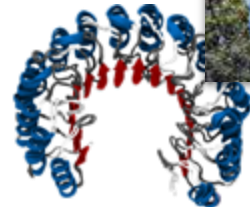
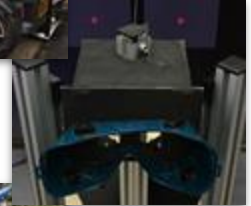
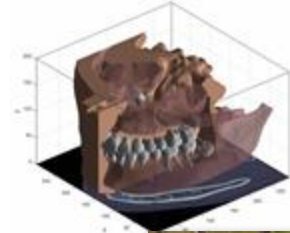


Years 3 and 4

Deep knowledge → New knowledge

- Algorithmic Game Theory
- Bioinformatics
- Blockchain and Cryptocurrencies
- Cryptography
- Computational Complexity
- Computational Modelling in the Humanities and Social Sciences
- Computer Vision
- Deep Learning
- Reinforcement Learning
- Multimedia and Game Development
- Natural Language Processing
- Parallel Scientific Computing
- Project Management
- Virtual and Augmented Reality
- Human-AI Interaction Design
- Data Compression
- Music Processing
- + **Final Year Project**

- **Student projects** and **courses** across the full spectrum of computer science research
- **ACiD** – Algorithms and Complexity in Durham
- **AIHS** – Artificial Intelligence and Human Systems
- **NESTiD** – Network Engineering, Science and Theory in Durham
- **SciComp** – Scientific Computing
- **VIViD** – Vision, Imaging, and Visualization in Durham



Study abroad

- Apply to study overseas
- BSc: between 2nd and 3rd year
- MEng: 2nd and 3rd or 3rd and 4th
- Must pass the year, but marks from foreign institution do not count towards degree classification

Industrial placement year

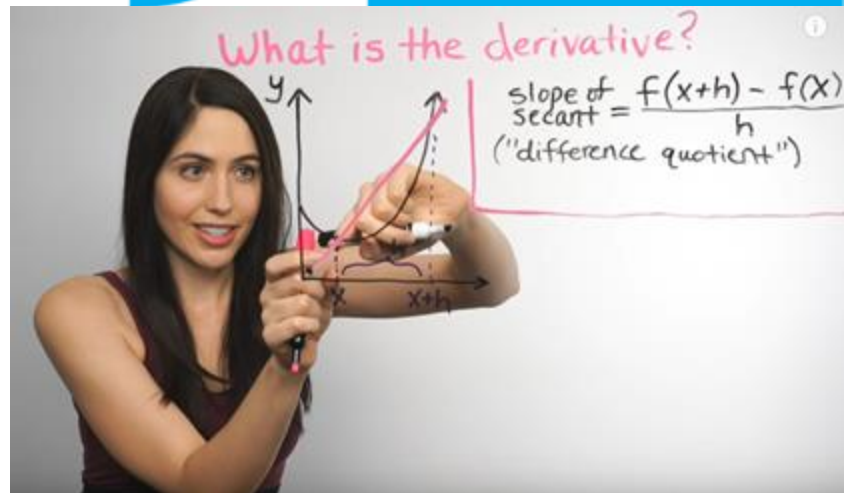
- Opportunity to do an additional industrial placement year
- Good to get experience before deciding on specialisation



What our selectors consider

- Prior and predicted grades
- Personal Statement
- Teachers/Academic Reference
- Contextual evidence of merit & potential
- Motivation for the degree programme
- Study & other skills

Find out more by attending 'Applying to Durham' session
CG93 Chemistry Building or visit the Admissions Desk in
the Teaching and Learning Centre/Business School





College Allocation and Preferences

- We no longer ask you to make a college preference on your UCAS Application Form. The only option listed at UCAS is 'Durham City'
- Your college is NOT linked to your degree subject
- Before we allocate your college, you will be invited to rank the colleges in the order of your preference
- You will be allocated your college in or around May
- To find out more visit the Colleges Hub on the top floor of the Teaching and Learning Centre





Why should I study computer science at Durham?

Research-led Teaching

Graduate prospects

/ Max 100



1st
▲ 5

Collegiate System



Hazan
Venture
Lab



World
Top
100

Internship &
Placement
Support

6th
in the
UK



Student Experiences

