Advanced Computer Science MSc

COURSE OVERVIEW

Research in Computer Science at York is carried out at the frontiers of knowledge in the discipline. This course gives you the chance to study a range of advanced topics in Computer Science, taught by researchers active in that area. This means you will be learning current research results, keeping you at the forefront of these areas. You will also learn a range of theories, principles and practical methods.

The MSc in Advanced Computer Science is a full time, one year taught course, intended for students who already have a good first degree in Computer Science, and would like to develop a level of understanding and technical skill at the leading edge of Computer Science.

You will also undertake your individual research project over the Summer term and Summer vacation. This will be a culmination of the taught modules you have taken during the course and will allow you to focus on a specialist area of interest.

AT A GLANCE

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<td>FT</td>
<td>One year</td>
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<td>PT</td>
<td>Full time only</td>
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<td>MODULES</td>
<td>80 credits</td>
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<td>PROJECT</td>
<td>100 credits</td>
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DEPARTMENT OF COMPUTER SCIENCE

University of York
York, YO10 5DD
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cs-pg-admissions@york.ac.uk
cs.york.ac.uk/postgraduate
ADVANCED COMPUTER SCIENCE MSc

MODULES*

- Concurrent and Real Time Programming
- Functional Programming Technology
- Model-Driven Engineering
- Quantum Computation
- Service Oriented Architecture
- Natural Language Processing
- Adaptive and Learning Agents
- Cryptography Theory and Applications
- Advanced Topics in Interactive Technologies
- Evolutionary Computation
- Topics in Privacy and Security
- Quantum Information Processing

ENTRY REQUIREMENTS

The MSc in Advanced Computer Science is intended for students who already have a good first degree in Computer Science. Typically, you will have achieved at least an upper second class honours degree (or international equivalent). We are willing to consider your application if you do not fit this profile, but you must satisfy us that your knowledge in Computer Science is appropriate for advanced study.

If English is not your first language, or your first degree was not taught in English, then you will need to have attained a suitable language qualification no more than two years before the start of the course.

Teaching quality is excellent - it isn't textbook oriented and it always encourages you to develop your understanding on a topic by reading journals and research articles. 
Savitri Patel

KEY FACTS

- First-class teaching, blending theory and practice in a world-class research environment
- Dedicated state-of-the-art facilities, including hardware and software laboratories
- Internships available at leading organisations
- Excellent career prospects – nine out of ten students in employment or further study within six months of graduating
- High staff-student ratio, including your own personal supervisor
- REF assessment: seventh overall in the UK (Research Excellence framework 2014)

HOW TO APPLY

For more information, and details of how to apply, go to cs.york.ac.uk/applyPG, or call +44 (0)1904 325404. Alternatively, you can email cs-pg-admissions@york.ac.uk

*modules included as a guide – subject to change