Join Radboud Summer School 2019!

Quantum in the Summer

change perspective

Radboud University
One of today’s most fascinating fields of research and innovation involves applying quantum phenomena to new technology called quantum computers. The belief is that these technologies promise to revolutionise society in coming years through secure communication, precision measurement, and powerful computation.

The purpose of this course is to partake in this revolution by encouraging the next generation of researchers into quantum-based research. This course aims to bring you up to the cutting edge of research in some aspects of quantum information and computation, and to make it easier to get to that cutting edge in other aspects of the field. This course will be a coherent, unified, in-depth set of lectures and tutorials on fundamental aspects of quantum information and computing. Our focus will be on the fundamentals, and we will supplement this by illustrative examples of quantum mechanics in action. By grounding you in such a basis, we hope to inspire you to be the next-generation of quantum researchers. Prior knowledge of quantum theory in not required to join this course.

We will also offer a special lecture on the adoption of quantum computing within the global financial sector, showing you how the work done by the course lecturer currently helps major players in the banking industry in their adoption of quantum technologies.

After this course you are able to
• Understand fundamental aspects of quantum mechanics
• Describe the workings of foundational quantum protocols
• Understand the concept of entanglement and its importance as a physical resource
• Describe quantum communication channels and define concepts, such as, channel capacity

Number of EC
2 ECTS credits

Course leader
Colin Wilmott, Senior lecturer, Department of Mathematics, Nottingham Trent University, UK
Entry level
Advanced Bachelor, Master and PhD

This course is designed for
Mathematicians, physicists, computer scientists, and others, such as, chemists. Students of business/media may also be interested because of the obvious impacts on the worlds of business, finance and media

You can find more details about this course on our website

Course date
Monday 8 July - Friday 12 July 2019

Course fee
€ 600

Deadline application
1 May 2019

Discounts
• 10% discount for early bird applicants. The early bird deadline is 1 March 2019.
• 15% discount for students and PhD candidates from partner universities. Please note that these discounts can be combined if you apply before 1 March 2019.

Apply now!
What is the RSS experience?

RSS is more than just a course!

Radboud Summer School offers you a unique opportunity to meet other students and researchers from all over the world with different cultural and academic backgrounds. You will also get to know Radboud University and the city of Nijmegen.

Our social programme includes a welcome reception, guest lecture and farewell drinks. And for a small fee you can join our BBQ, River Cruise on a pancake boat, a Pub Quiz, Sports Activities or a City Game.

Want to know more?
Have a look at what participants have said about their experience on our website!

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