

# Online MSc Data Science

Build skills for a digitally-driven career.



# **Table of Contents**

<b>Essential Information</b>	<b>3</b>
<b>Grow with The Best</b>	<b>4</b>
<b>Your Online Learning Experience</b>	<b>5</b>
<b>What this Degree Does for you</b>	<b>6</b>
<b>Programme Overview</b>	<b>7</b>
<b>Modules</b>	<b>8</b>
<b>Entry Requirements</b>	<b>10</b>
<b>Programme Leaders</b>	<b>11</b>
<b>Student Support</b>	<b>12</b>
<b>Career Opportunities</b>	<b>13</b>
<b>Start Application</b>	<b>14</b>

## **Essential information**



### **Start date**

January, March, June, and September

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### **Study mode**

Online

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### **Duration**

2 years, part-time

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# Grow with the best



**London's #1 modern university**

(Times Good University Guide, 2022)



**Top 10 for postgraduate satisfaction**

(Postgraduate Taught Experience Survey, 2023)



**Silver in 2023 Teaching Excellence Framework**

(Teaching Excellence Framework, 2023)



**Joint number 1 modern university in the UK for research**

(Research Excellence Framework, 2021)



**Ranked in the top 15% of young universities worldwide**

(Times Higher Education Young University Rankings, 2024)



## Your online learning experience

### **Learn how you like.**

Grow your career, wherever you are, with our cutting-edge virtual learning platform. Gain on-demand access to course materials and resources from multiple devices.

### **Support when you need it.**

Access our dedicated support teams to answer queries quickly and feel confident throughout your learning journey.

### **Prepare for your next steps.**

Shape your educational journey to match your career objectives with our adaptable learning paths and specialised resources relevant to your future success.

# **Unlock new opportunities in the digital landscape**

## **Advance with a recognised qualification.**

With our internationally respected computing programme, you'll enhance your credibility and career prospects as a tech professional across a wide range of sectors, giving your career mobility and security.

## **Specialise your technical skill set.**

You'll gain must-have hard skills and digital competencies in digital defence, such as data analytics, visualisation, machine learning, and more to keep the ever-evolving world of technology foolproof.

## **Broaden your digital experience.**

Go beyond textbook must-haves and immerse yourself in real-world cybersecurity scenarios. From case studies to hands-on projects, you'll develop practical skills that can be applied to the modern workplace.

## **Expand your global network.**

You'll grow your professional network by connecting with a diverse community of like-minded peers and gaining invaluable insights into global practices from the experts themselves.

## **Get future-ready for the tech industry.**

You'll stay ahead of the curve and embrace new career opportunities within the digital landscape with the support of top academics and an on-demand careers support team.



# Programme overview

Embrace the future of technology with our Online MSc in Data Science, where you'll master the art of transforming complex data into actionable insights. Engage with cutting-edge topics like artificial intelligence, data visualisation, and big data analytics, equipping yourself with the skills to lead in a data-driven world.

You'll gain hands-on experience working with real-world data sets, preparing you for diverse applications across various industries, from finance to social policy.

## Modules:

With Roehampton, learning is possible anywhere, anytime, and in any way. You'll progress through each 20-credit module at your own pace, allowing you to balance your studies with your other commitments seamlessly. Experience a blend of hands-on learning practices, including engaging videos and collaborative workshops.

- Mathematics for Data Science
- Data Analytics
- Machine Learning
- Data Visualisation
- Applications of Data Science
- Deep Learning Applications

Wrapping up this degree you'll complete a final project (worth 60 credits) and be able to participate in our optional work and/or industrial placement programme during the summer term.

# Modules

You'll complete six compulsory modules on our Online MSc Data Science.

## **Mathematics for Data Science**

Explore the mathematical foundations essential for data science, covering topics like statistics, probabilities, calculus, and linear algebra. Equip yourself with the analytical tools necessary for understanding machine learning algorithms and data-driven decision-making.

## **Data Analytics**

Delve into the fundamentals of data analysis, learning to interpret raw datasets to uncover trends and inform strategic decisions. Master algorithms, descriptive statistics, and data wrangling techniques to optimise processes in various sectors.

## **Machine Learning**

Explore the dynamic landscape of machine learning, focusing on diverse methodologies, such as decision trees and neural networks. Learn to evaluate system performance and address ethical implications to implement machine learning solutions across various industries.



# Modules

## Data Visualisation

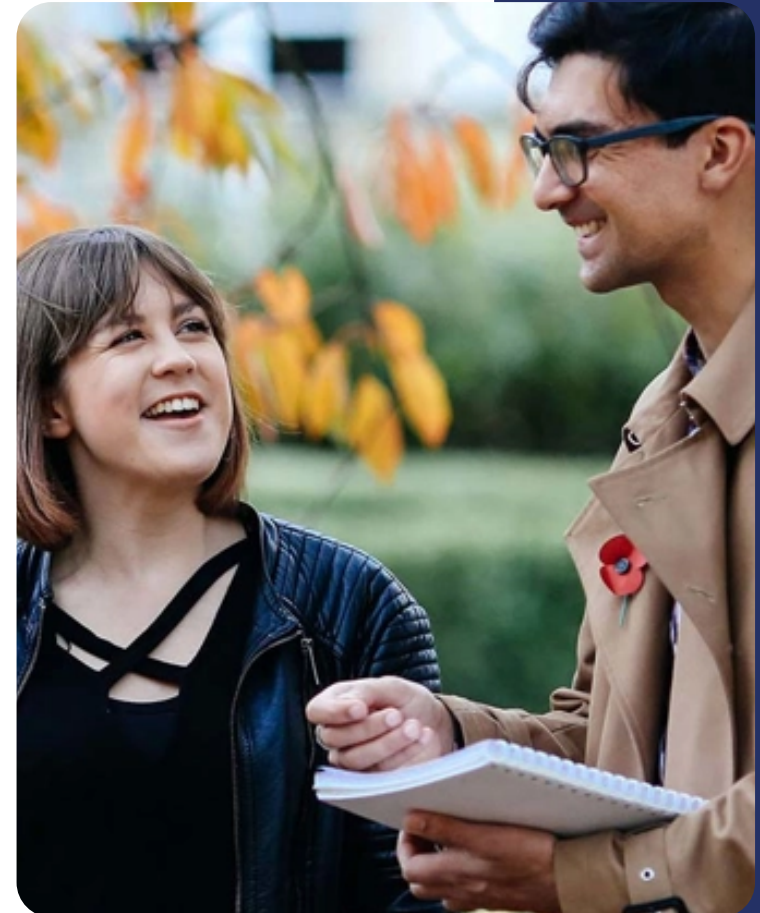
Discover the principles and techniques of effective data visualisation, combining art and science to present insights compellingly. Engage in design, cognitive foundations, and user evaluation to create interactive visualisations that communicate data effectively across diverse platforms.

## Applications of Data Science

Examine the transformative impact of data science across multiple industries, from finance to e-commerce. Engage with real-life applications to develop essential data science techniques, equipping you with a range of career opportunities in this dynamic and ever-evolving field.

## Deep Learning Applications

Deepen your understanding of technologies driving innovations in various sectors, from autonomous vehicles to healthcare. Apply machine learning concepts to tackle complex challenges, enhancing your ability to develop and implement solutions that leverage deep learning techniques effectively.



# Entry requirements

## Higher Education Requirements

To be eligible for this online degree, you must normally hold a second-class honours degree in a STEM subject. You should have a background in computing or computer science, gained through previous study or relevant professional experience.

Applicants with a third-class honours degree or significant work experience may also be considered on a case-by-case basis.

## English Language Requirements

Our programmes are delivered in English. Non-native English speakers must demonstrate a minimum standard of English language proficiency through a valid English language qualification that is no older than two years from the date of issue. Accepted language tests and scores for postgraduate degrees include:

- **IELTS Academic** – 6.5 overall
- **Roehampton English Language Test** - 6.5 overall
- **Kaplan test of English** - 478-509 overall
- **TOEFL IBT** - 89 overall
- **PTE Academic** – 59 overall
- **Cambridge** - 176 overall



# Programme leaders

**Dr Alison Watson**



Professor Alison Watson is a senior academic leader specialising in leadership, sustainable development and accreditation. Formerly a Head of School at Arden University she oversaw student success and outcomes for 12,000+ students and delivered a globally recognised MBA redesign. A Principal Fellow of AdvanceHE, Chartered Manager (CMI) and Chartered Marketer (CIM), her research covers marketisation of HE, segmentation, student recruitment and e-learning, with current work on responsible leadership. She holds an MBA (Leicester) and a PhD (Teesside).

Dr. Maria Argyropoulou brings extensive academic and managerial experience to the Roehampton campus. Over the past decade, she has focused her research on entrepreneurial economics and organisational studies. Her expertise spans business development, management, innovation, leadership, information technology, strategic management, and marketing management.

**Dr Maria Argyropoulou**





## **Support from day one**

Online learning doesn't mean you have to navigate your educational and professional journey alone. We're here to help with a range of our student support services:

### **Study support:**

We offer extensive academic resources and study support services to enhance your learning and success, all available from day one.

### **Technical support:**

To ensure you receive a seamless online learning experience, our on-demand technical support team will be there to answer any technology-related issues or questions you have.

### **Admissions support:**

Our admissions team is here to assist you at every step of the enrolment process. They're happy to answer any queries you have throughout your online journey.

### **Financial support:**

We're committed to helping you invest in your academic journey without overwhelming your finances, offering financial support options to accommodate your needs.

# Career opportunities

At Roehampton, we recognise that acquiring the right skills is essential to securing your dream career. That's why employability is central to all our online degree programmes.

Beyond the valuable knowledge gained through our modules, we offer a range of career services to further boost your chances of achieving your professional goals.

Here are just a few of the resources available to you as an online postgraduate student at Roehampton:

**CareerLink:** Our online career services tool offers CV builder support, interactive mock job interviews, volunteering and jobs directories, skills courses, and more.

**Handshake:** Roehampton's career services app of choice connects you with top employers and allows you to discover employment opportunities.

**Career advisors:** Set up an appointment with one of our career advisors to get advice on career planning, job applications, and interviews.

**On-demand webinars:** Hear from experts and gain essential insights to help you make informed decisions about your career and academic future.





Begin your  
postgraduate  
degree with  
**Roehampton**



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