

# Master of Applied Data Science (MADS) Postgraduate Diploma in Applied Data Science (PGDipADS) College of Science

## Key facts about the programme

- 1 Work-integrated learning postgraduate qualification
- 2 Graduates can apply from undergraduate degrees from most disciplines
- 3 Designed to meet world-wide shortage for data scientists
- 4 Data science research centres



## What does this programme cover?

Data science has become the world's fastest growing profession, as organisations all over the world recognise the value of 'Big Data' – the vast amounts of data generated and collected by people and organisations every second that can reveal patterns, trends, and associations on a large scale.

UC's Master and Postgraduate Diploma in Applied Data Science programmes are designed to accommodate students from a range of backgrounds who want to enhance or build their data science capabilities.

Compulsory courses:

- Data Analytics and Business Intelligence Systems in Organisations
- Digital Humanities Research Methods
- Official Statistics
- Big Data

Elective course options include:

- Biological Sciences
- Computer Science
- Digital Humanities

- Economics
- Environmental Science
- Finance
- Geography
- Geology
- Mathematics
- Physics
- Psychology
- Statistics

### Master's Project

The industry project brings students to work in interdisciplinary teams as data scientists do, with the project providing a focus on teamwork, communication and management skills. The PGDipADS has the same course content as the MADS but is less the project paper.

## What are the entry requirements?

- A relevant bachelor's degree with a UC equivalent B average
- Dean of Science approval

## AT A GLANCE

### Start Dates

February  
July

### Months to Complete

MADS Full-time..... 12–18 months  
PGDipADS Full-time.....12 months

### Features

Market project .....Yes

### Prices for 2018\*

MADS ..... \$11,786  
PGDipADS ..... \$8,157

### Scholarship

Scholarships are available for postgraduate students. For more information go to <http://www.canterbury.ac.nz/future-students/fees-and-funding/scholarships-at-uc/>.

\*The price (tuition fee) is indicative for 2018.



'I founded my own data science consulting company to apply theory to real-world problems. I'm responsible for determining how to solve problems in a client's domain. In my first year of consultancy I worked on projects in online advertising, sociology, sports analysis, marketing, and media broadcasting. My experience allows me to help students who want to be part of the 'big data revolution'

**James Williams**

UC graduate Founder / Data Scientist / Software Engineer,  
Isogonal Limited  
Lecturer, University of Canterbury

### What careers can this lead to?

Data science is an exciting field to get into and one of the world's faster growing employment sectors, making it a great career choice. As a data scientist, you'll analyse past and current data to provide predictions and valuable insights into everything from social behaviours to the natural environment. Data scientists are the bridge between IT experts and analysts.

MADS and PGDipADS go on to work in:

- Technology companies
- Consulting and research firms
- Science organisations
- Government agencies
- Manufacturing and retail sectors
- Professional services
- Healthcare
- Finance and insurance
- Start-up businesses

### Average starting salary

\$80,000 with master's degree.

This information was correct at time of printing: July 2018.

### Enrolment information

#### How to apply

Apply online through myUC:  
<https://myuc.canterbury.ac.nz>

#### When to enrol

Applications need to be in five weeks before the programme starts.

#### Who to contact

Mathematics and Statistics Department  
+64 3 364 2600  
[enquiries@math.canterbury.ac.nz](mailto:enquiries@math.canterbury.ac.nz)  
[www.math.canterbury.ac.nz](http://www.math.canterbury.ac.nz)

### Why UC?

- QS ranked 214<sup>th</sup>
- QS Top 200 in Statistics and Operational Research
- Network of field and research stations
- Ernest Rutherford Centre
- Research hubs such as the Geospatial Research Institute, HIT Lab NZ, High Performance Computing, Wireless Research Centre, and Digital Humanities group
- Industry partnerships
- Dedicated career support unit



### Purpose-built innovation

The brand new Ernest Rutherford building positions UC students and staff at the forefront of contemporary science.

With the most modern university science and research facilities in the southern hemisphere, postgraduates will have access to:

- State-of-the-art labs
- Built-in technologies
- A postgraduate study suite
- Informal social spaces
- Community/industry events