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

UC
UNIVERSITY OF CANTERBURY
Te Whare Wānanga o Waitaha
CHRISTCHURCH NEW ZEALAND

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 2020*

MADS $12,021

PGDipADS $8,014

Scholarship

Scholarships are available for postgraduate students. For more information go to http://www.canterbury.ac.nz/get-started/scholarships/.

*The price (tuition fee) is indicative for 2020.

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Te Rāngai Pūtaiao

> '*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 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.

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 3 369 2233
enquiries@math.canterbury.ac.nz
www.math.canterbury.ac.nz

Why UC?

- QS ranked 227th
- 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

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