

Mātai Pūtaiao Raraunga Undergraduate Data Science



Data scientists drive innovation and improve success in many areas: start-ups and established businesses, Government, science, media, broadcast and cultural events.

What is data science?

Data science applies techniques from computer science, statistics, and mathematics to drive insights in a particular domain, such as entertainment or finance. For that purpose, data scientists gather data from various sources, prepare the data for analysis, apply analytical techniques such as machine learning, statistical modeling or data warehousing, and visualise the results to an audience.

Birthplace of R

The Department of Statistics is the birthplace of the R Project. Founded in 1996 by Associate Professors Robert Gentleman and Ross Ihaka. R is a programming language and environment for statistical computing and graphics. It is taught around the world and is used by Ivy League universities, Google, Uber, and many more organisations.

What you will learn

Both Computer Science and Statistics make significant contributions to the Data Science specialisation.

Studying Data Science at the University of Auckland exposes you to the latest research and thinking in areas such as data wrangling, managing databases, machine learning, and predictive modeling.

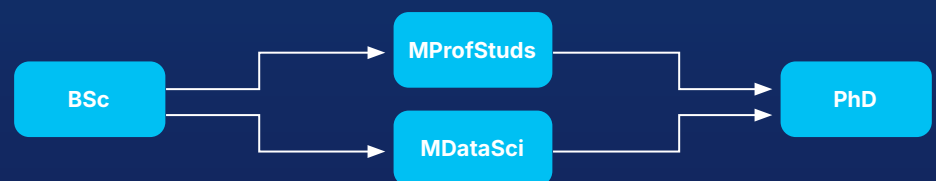
Data Science students develop an enthusiasm for ideas, discovery and learning, and intellectual curiosity – do you have what it takes to turn data into information, knowledge and innovative products?

How you will learn

You will learn principles that will allow you to quickly adapt to many technology changes in your future career. You will learn data science hands-on, not only to understand state-of-the-art, but also apply it.

Dedicated students run our Data Science Club hosting many talks from data science leaders and running networking events. Our vibrant industry advisory group connects students with our local industry through guest lectures, projects, events, and internships.

We also offer a Master of Data Science that will allow you to take your studies further and advance your career.



Entry to the MProfStuds requires either a 4-year bachelors, an honours degree, or a bachelors degree plus a one-year professional qualification or three years' of relevant work experience.



Career opportunities

Data Science is an area of study which gives individuals the ability to manage and analyse big data, and drive innovation in organisations across all industries.

The last decade has seen an explosion in the amount of data available. It has evolved into one of the most important assets for many employers. The ability to turn data into actionable insights and innovative products often separates success from failure.

Currently, there is an unmet demand for graduates in the field of data science. As a data scientist, you will have the skill set to drive innovation and affect the success of a diverse range of businesses and organisations.

There is a range of career opportunities available to you as you become a responsible citizen in a data-rich world.

Jobs for our Data Science graduates include:

- › Data Scientist
- › Data Analyst
- › Data Engineer
- › Decision Scientist
- › Insights Analyst
- › Risk Analyst
- › Solutions Architect
- › Business Intelligence Analyst
- › Database Administrator
- › Data Governance Engineer
- › Data Strategy Analyst

- › Data Architect
- › Database Administrator
- › Developer
- › Information Officer
- › Insight Manager
- › Statistician

What you can study

- › Data analysis and data technologies
- › Database systems
- › Programming and algorithmics
- › Artificial intelligence
- › Statistical modelling and computing



Find out more about how your degree will be structured and what courses you need to take at

auckland.ac.nz/science/ug-data-sci

Applications close on 8 December.



"I really loved the blend of Statistics and Computer Science that Data Science offered; the programme gives you a solid skill set in both areas. This is extremely useful as it opens up so many career paths and gives you a lot to choose from depending on which skills you enjoy more."

Jasmine Chhor
BSc in Data Science

Kuhua ki tō mātou hāpori, ā, Kimihia tōu Pūtaiao.
Join our community and find your Science.



Disclaimer: The information in this document is a general guide only for students and subject to alteration. All students enrolling at the University of Auckland must consult its official Calendar, to ensure that they are aware of and comply with all regulations, requirements and policies. [2025]

Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs