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 insight 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 datawarehousing, and visualise the results to an audience.

University of Auckland and Data Science
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 a significant contribution to the Data Science specialisation. The University of Auckland is ranked first in New Zealand for statistics and operational research*. 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?
You don’t need to have taken any particular subject at high school to study Data Science with us, but digital technologies, mathematics and physics provide helpful background knowledge.

How you will learn
Our academics are world-leading experts of data science. We host some of the few people in the world who can make changes to the code of R, as well as eminent researchers in areas such as algorithmics, databases, artificial intelligence and machine learning.

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, to not only understand state-of-the-art, but also apply it.

We have a diverse cohort of students you will easily integrate into. 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.

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Mātai Pūtaiao Raraunga

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