

# Master of Spatial Analysis for Public Health (MSAPH)

## College of Science

### Key facts about the programme

- 1 Use spatial science to solve public health problems
- 2 Brand new programme offered in 2018
- 3 Provides a solid foundation for career development into senior spatial analysis roles
- 4 Only programme of its kind in Australasia



### What does this programme cover?

The Master of Spatial Analysis for Public Health (MSAPH) combines geographic information science (GIS) technologies with expertise on public health issues. You'll learn how to analyse and interpret data, and use geospatial science to improve community wellbeing. Graduates will have a solid foundation for developing further and moving into senior spatial analysis roles within New Zealand and internationally.

This programme consists of compulsory courses and a workplace or community-based research project.

The courses cover:

- Spatial Analysis
- GIS in Health
- Spatial Algorithms and Programming
- Health Information Management
- Health Intervention Research Methods
- Official Statistics
- Big Data

Also offered: The Professional Master of Geospatial Science and Technology.

This master's degree provides students with the skills, knowledge and competencies to undertake spatial analysis roles within a wide range of health organisations.

### What are the entry requirements?

- A bachelor's degree with a UC equivalent B average
- Some basic prior experience in statistics, programming or GIS
- Dean of Science approval

Spatial health data is fundamental to assess hazards from environmental exposure, and the impact of health interventions on community wellbeing.

### AT A GLANCE

#### Start Date

February

#### Months to Complete

Full-time ..... 12 monthss

#### Features

Community work-based project ..... Yes

#### Price for 2018\*

MSAPH ..... \$12,158

#### Scholarship

Ministry of Health Scholarship ..... up to \$5,000

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

\*The price (tuition fee) is indicative for 2018 and is an International fee only.



### Staff Profile

‘Our graduates will have the skills, knowledge and competencies to be employed in any organisation involved in health data analysis.’

#### Professor Simon Kingham

PhD, BA Hons and a PGCert in Teaching  
UC lecturer, University of Canterbury



### Employer Profile

‘The health sector is looking for graduates who can deliver robust geospatial research and analytics, to shape evidence-based policy and investment practice across health and other social services.’

#### Dr John McCarthy

PhD Quantitative Human Geography  
MA, Human Geography with Geographical Information Systems  
Ministry of Health, New Zealand

### What careers can this lead to?

This degree prepares you for a career in the emerging and rapidly developing field of spatial analysis and health. Geospatial analysts use spatial data to determine important health demographics such as the causes of disease, physical and mental behavioural trends, and economic affect. These issues are on the rise and experts are needed globally.

MSAPH graduates will be able to go on to careers in:

- Health research
- District Health Boards
- Government agencies
- Public or environmental health organisations
- GIS software development

### Average starting salary

\$70,000 with master’s degree.

### Average salary by year 3

\$90,000

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

Geography Department  
+64 3 369 4087  
[geog@canterbury.ac.nz](mailto:geog@canterbury.ac.nz)  
[www.geog.canterbury.ac.nz](http://www.geog.canterbury.ac.nz)

### Why UC?

- QS ranked 214<sup>th</sup>
- QS Top 150 in Geography, Top 200 in Earth and Marine Sciences and Environmental Sciences
- Network of field and research stations
- Ernest Rutherford Centre
- Geospatial Research Institute Toi Hangarau and Geohealth Laboratory
- 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