Learning for a Geospatial Future

Professor Simon Kingham
Director of the Geospatial Research Institute Toi Hangarau
Director of the GeoHealth Laboratory
Department of Geography
University of Canterbury - Te Whare Wananga O Waitaha
Christchurch
New institute building NZ's geospatial future

Tuesday, 26 April, 2016 - 16:49

A new research institute based at the University of Canterbury will boost New Zealand's geospatial research capability, and help improve the social, environmental and cultural well-being of New Zealand, says Land Information Minister Louise Upston.

Minister Upston helped launch the university's Geospatial Research Institute today, and said the Institute offered major benefits for New Zealand.

"Geospatial research delivers real benefits for real people. For example, the University of Canterbury's GeoHealth Lab is mapping air quality around Christchurch to better understand asthma rates, and looking at how access to parks improves the health of neighbouring communities.

http://www.voxy.co.nz/national/5/249796
Mapping
Mapping

Legionnaires disease rates 15-24 yrs 2003-05

Melanoma rates 30-39 yrs 1995-04

Suicide rates Males 15-24 yrs 2003-05

% smokers 2001
Analysis

Median number of food outlets within 800m of schools

Clustering of food outlets around all schools
Residential exposure to visible blue space (but not green space) associated with lower psychological distress in a capital city

Daniel Nutsford a, Amber L. Pearson b,c,#, Simon Kingham a, Femke Reitsma a

# University of Canterbury, Department of Geography, Christchurch, New Zealand
# Michigan State University, Department of Geography, 673 Auditorium Road, East Lansing, MI 48824, USA
# University of Otago, Department of Public Health, 23A Mein Street, Wellington 6242, New Zealand

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Contents lists available at ScienceDirect

Health & Place

journal homepage: www.elsevier.com/locate/healthplace
Tracking

Time

Risk factor 1

Risk factor 2

LATITUDE

LONGITUDE

Home

Day nursery

School

Football ground

Allergens

Measles

Noise

Stress

Meeting

VOC

Job 1

Job 2

TV violence

Radioactive

Platinum Partners:

Diamond Partner

FIG

NZIS

Trimble

esri

FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2–6 MAY 2016

Recovery from disaster
Tracking

Orange = Motor vehicle
Blue = Cycle
Green = Walk
What next?
How can I be part of this geospatial future?

- Make sure you are qualified and trained for it
University undergraduate study

• University of Canterbury Dept of Geography
  – GEOG205: Introduction to Geographic Information Systems
  – GEOG208: Remote Sensing for Geospatial Analysis
  – GEOG323: Geospatial Analysis in the Social and Environmental Sciences
  – GEOG324: Advanced GIS

• University of Otago Dept of Surveying
• University of Auckland School of Environment
• + Massey, Victoria, Waikato & AUT
WELCOME TO THE MASTERS IN GIS

The Masters in Geographic Information Science (MGIS) and the Postgraduate Diploma in Geographic Information Science (PGDipGIS) at the University of Canterbury, Victoria University of Wellington, and the Auckland University of Technology (AUT) is a programme designed not only to equip students with strong technical skills in a range of different software environments, but also to ensure students develop a solid foundation in GIS theory, knowledge and applications. These skills will allow graduates to work within, critique and build beyond any existing GIS system. The MGIS and PGDipGIS are exciting opportunities to move into an exciting and fast-growing field.

CONGRATS TO MGIS SPATIAL EXCELLENCE AWARD WINNERS
November 2015
Congratulations to Dr Mairead de Roiste, Richard Law and Hamish Kingsbury for their recent wins at the New Zealand Spatial Excellence Awards. More...

MGIS STUDENTS AWARDED ESRI YOUNG SCHOLAR PRIZE
14 May 2015
Victoria University’s first ever Master of Geographic Information Science (GIS) was capped at yesterday’s graduation ceremony. Andrew Clouston, Geospatial Team Manager at Land Information New Zealand (LINZ), was the first graduate since the programme’s inception at VUW in 2012. More...
‘The power of where’ drives New Zealand’s success

Land Information New Zealand (LINZ) makes a significant contribution to the smooth running and development of New Zealand.

So many decisions involve information about location— from finding the best use for farmland, to deciding where to build a school, to planning underground infrastructure maintenance, to deciding which route to take to work. This is information that LINZ provides.

Decisions using location information already add $1.2 billion to New Zealand’s economy. LINZ’s vision is to increase this value by tenfold over the next decade. We call this ‘the power of where’.
<table>
<thead>
<tr>
<th>Job Title</th>
<th>Company</th>
<th>Location</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Analyst</strong></td>
<td>Hudson New Zealand</td>
<td>Wellington</td>
<td>Mon 24 Nov</td>
<td>Permanent role, SQL focus, CBD Location. Permanent Data Intelligence Analyst, SQL Databases, knowledge of web applications and GIS, CBD location. Information &amp; Communication Technology &gt; Database Development &amp; Administration. Add to shortlist.</td>
</tr>
<tr>
<td><strong>Spatial Intelligence Analyst</strong></td>
<td>Hudson New Zealand</td>
<td>Wellington</td>
<td>Mon 24 Nov</td>
<td>Permanent Role, CBD Location, Enterprise GIS environment. Permanent Spatial Intelligence Analyst, GIS, ESRI and Intergraph, enterprise analysis and modelling, some knowledge of SQL a bonus. Information &amp; Communication Technology &gt; Business/Systems Analysts. Add to shortlist.</td>
</tr>
<tr>
<td><strong>SPATIAL INTELLIGENCE ANALYST</strong></td>
<td>New Zealand Fire Service</td>
<td>Wellington</td>
<td>Fri 21 Nov</td>
<td>Exciting role within the NZ Fire Service, opportunity to utilise your knowledge within a supportive team and make a real difference to the business. Information &amp; Communication Technology &gt; Business/Systems Analysts. Add to shortlist.</td>
</tr>
<tr>
<td><strong>14/1175 - Senior Geospatial Consultant</strong></td>
<td>Statistics New Zealand</td>
<td>Christchurch</td>
<td>Fri 21 Nov</td>
<td>Christchurch or Wellington - Permanent. Flexible working hours, internal &amp; external training programmes on offer. A key part of this role involves engaging with internal stakeholders to ensure statistical requirements and geospatial solutions are meeting needs. Government &amp; Defence &gt; Government. Add to shortlist.</td>
</tr>
</tbody>
</table>

**Junior CAD Consultant (Abbotsford, VIC)**
Coffey International Limited
- Pivotal support role to the Spatial team
- Global professional services consultancy firm
- Abbotsford, Victoria
Real potential is uncovered only when you scratch beneath the surface.

**Assets Engineering Officer**
North Sydney Council
We are seeking a suitably qualified individual to effectively and efficiently assist in the management of Council’s assets.

**GIS Analyst**
AECOM
- Join a global Fortune 500 organisation
- Sydney CBD location
- Supportive environment
Excellent opportunity for a Professional Spatial Information Specialist to join our Geographic Information Systems team.

**Aborists - Edinburgh**
Transfield Services (Aust) Pty Ltd
We are seeking an Arborist to conduct all tree inspections, mapping, reporting, trimming and felling of trees on the Defence sites.

**Business Analyst | GIS | CBD location**
Talent International – SARA Winner Large Recruitment Agency 2014 – SEEK
- Supportive work environment
Spatial experts added to Immigration's skills shortage list

Immigration New Zealand has responded favourably to an industry request to ease a shortage of geospatial knowledge

Stephen Bell (Computerworld New Zealand) on 12 February, 2013 20:39
Thanks