

<b>Project title:</b>	<b>High-Resolution Satellite Data Extraction of Urban Greenness across Australian Postcodes</b>
<b>Hours of engagement &amp; delivery mode</b>	36 hours per week  In person Herston Campus, Building 887 Public Health Building
<b>Description:</b>	<p>Access to greenspace is associated with human health. People who live in areas with more vegetation often experience fewer chronic health conditions and better mental health. Because of these links, understanding how much vegetation is present in a landscape and how it changes over time has become an important part of environmental and public health research.</p> <p>Satellite imagery offers a practical way to measure vegetation across large areas. This Winter project will focus on collecting vegetation data from satellite imagery. Data will be sourced from publicly available online repositories. The work will involve identifying areas of interest, collecting satellite imagery, and extracting vegetation data.</p>
<b>Expected learning outcomes and deliverables:</b>	<p>The student will learn to collect and process environmental exposure data using Geographic Information Systems (GIS), specifically ArcGIS. They will gain skills in handling spatial and temporal data and working with publicly available environmental monitoring and satellite-derived datasets. In addition, they will enhance their understanding of environmental epidemiology, particularly how vegetation can be assessed.</p> <p>The student will produce a dataset of vegetation values as guided by the supervisor.</p>
<b>Suitable for:</b>	Coursework students from public health, epidemiology, environmental sciences, health sciences, or related coursework disciplines who have a strong interest in the project topic. Ideal for enthusiastic students able to attend on-campus at Herston for the duration of the project.
<b>Primary Supervisor:</b>	<p>Dr Darsy Darssan <a href="mailto:d.darssan@uq.edu.au">d.darssan@uq.edu.au</a></p> <p>Ph: (07) 3365 5272</p>
<b>Further info:</b>	<p><a href="#">Dr Darsy Darssan</a></p> <p>The supervisor MUST be contacted by students prior to submission of an application</p>