

2025 EECMS Summer Internship Application Form

Main Supervisor	Dr. Sourav Das
Other supervisors (if applicable)	
Project Title	Spatial epidemiology of Emergency Examination Authority for patients showing some mental health presentations.
Student location(s) for the project	Cutin University, Bentley campus
Duration of project	Eight weeks
Project Description	<p>The Emergency Examination Authority is a legal instrument used by the Govt of Queensland under an amendment to the public health act 2016. The change in legislation authorizes a first responder attending to an episode of violent mental health episode to apprehend and admit an individual to an emergency department (ED) of a Health Service. The ED can keep the individual for up to 24 hours before releasing them in society. In a series of recent publications, we have shown that this legislation is quite unhelpful in addressing several issues in the Far North Queensland –</p> <ol style="list-style-type: none"> a. Repeat admissions indicate that we are failing in our duty of care. b. The involved first responders – police service, ambulance service, and emergency department(s) often lack the capacity – expertise and time-necessary in addressing the underlying clinical condition. <p>This current project would extend this investigation across the state of Queensland, the second largest Australian state by area. The spatial variation of our findings would have significant social consequence for all end-users including patients, carers, and first responders.</p> <p>The student working on this project would be introduced to the state-of-the-art in statistical modelling of spatial data and management, including spatial-dataframe management, visualization, estimation, forecasting.</p>