

Junior Research Mentoring Programme

Code:	JRMP2021_10
School / Department:	Department of Computing
Name of Research Leader:	Dr Cao Yixin, Assistant Professor
Research Topic:	Twins in Graphs
Short Description of the Research Project:	<p>A graph is a structure to denote a set of objects and their relationship; for example, Facebook is nothing but a huge graph of people. The objects are denoted by vertices, and in the simplest case, we use an edge between two vertices to denote that they are "related." By twins we mean a pair of vertices that have precisely the same relationships. This project is about the most efficient ways to detect twins in massive graphs. Here the efficiency is measured by the number of steps we need to perform.</p> <p>Students joining this project do not need any technological background, but the only requirement is curiosity and the love of thinking. For students interested in taking up more challenges, this problem can be easily generalized and extended to more demanding tasks.</p>
No. of Places Offered:	3
Special Requirement(s):	Programming is a plus but not necessary

* The information presented above is subject to change.