

# Modeling: Exploring Reality with Mathematics and Computer

主講人：黃朝錦 教授  
長庚大學通識教育中心

時 間：102 年 3 月 13 日(三) 2 : 30 pm

地 點：應用數學系多媒體教室（理 408 室）

摘 要：

Utilizing combination of Mathematics and Computer Modelling becomes popular as a theoretical or working tool in a variety of research, including engineering, biological, medical and other sciences. However, building or developing such kind of reliable system might be much difficulty for most of mathematicians.

Here, we will introduce the robust **Python** computing environment which help us to focus on studying/solving problem instead of on learning hardwares/software's knowledge. To illustrate the exclusive features of the system, we will discuss how to explore some practical models, including **AS**ymmetric **E**xclusion **P**rocess (**ASEP**), **Droop's** Model etc. In particular, the methods of the visualization of simulation result will be discussed in details.

Within this talk, **Python** and its packages would be used to describe all the story.