

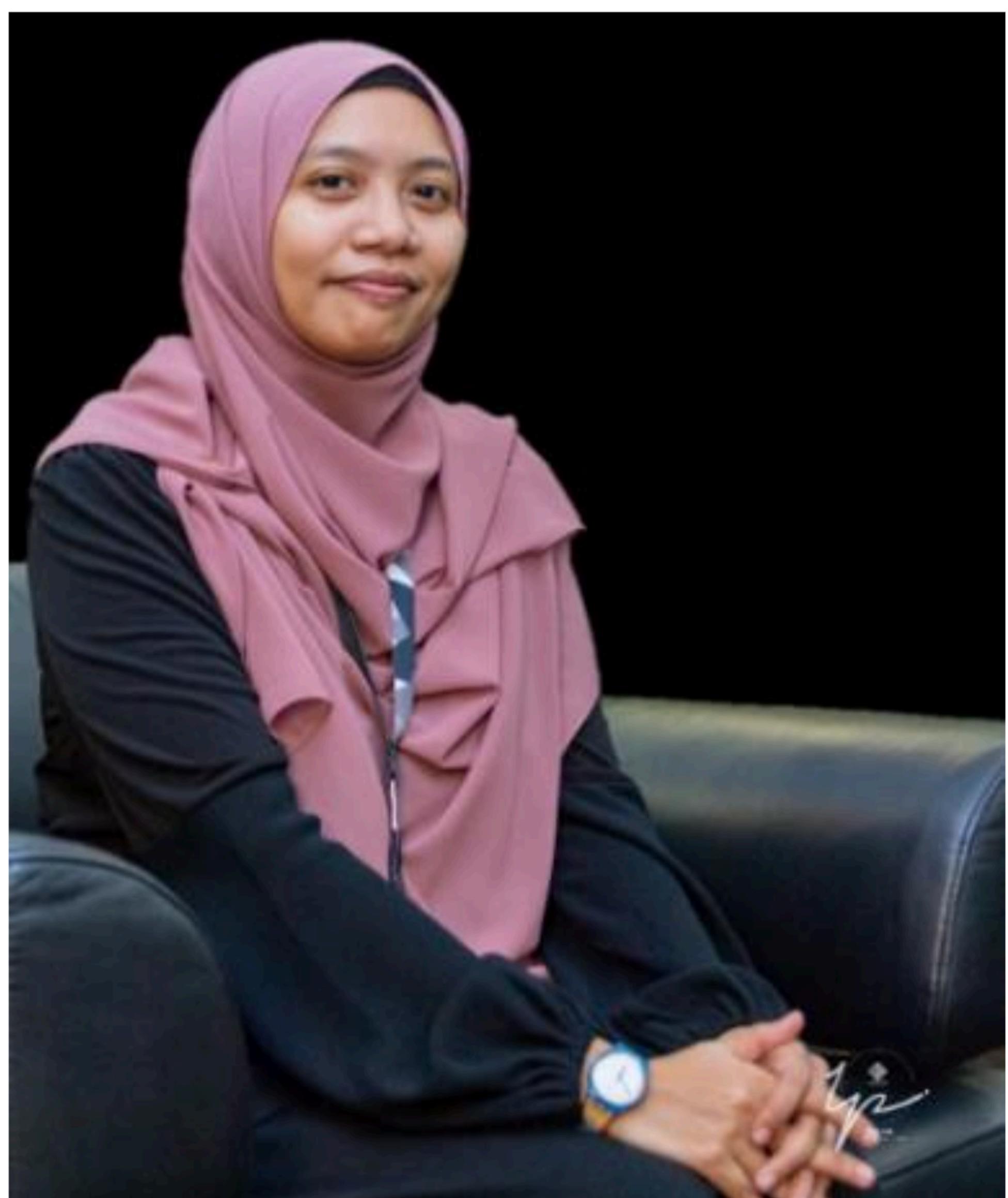


XIAMEN UNIVERSITY MALAYSIA

廈門大學 馬來西亞分校

Research Talk MALAYSIAN NETWORKS

October 3rd 2022 (Monday), 3:30–4:30 pm Room A4 #113



Fatimah Abdul Razak

Professor

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Research interests: Complex Systems of Finance & Economy, Meteorological & Environmental Data Analysis, Communicating Mathematics, Fundamentals of Complex Systems, Social Networks, Epidemic & Biological modelling.

SPEAKER INTRODUCTION

Dr. Fatimah Abdul Razak is an associate professor at the Dept of Mathematical Sciences of the Faculty of Science & Technology at Universiti Kebagsaan Malaysia. She got her PhD in Mathematics on Complexity & Network sciences at Imperial College London. Her thesis was on “Mutual Information Based Measures on Complex Interdependent Networks of Neuro Data Sets”.

ABSTRACT

The foundation of Network Analysis is Graph Theory. Often time approaches from both Graph Theory and Network Analysis are beneficial for modelling real world situations. After all, the origin of Graph Theory is strongly rooted in Euler solving the Konigsberg problem. I will discuss some applications of Graph Theory and Network Analysis on Malaysian data sets. One example of an application is crafting reopening strategies amidst Covid-19. Another application is to understand the Malaysian financial market. I welcome suggestions of new measures from Graph Theory to be applied on these data sets.