

IGS Scholar's Name: Wang Yu

Research Centre: ERIAN

1. What were you doing before PhD studies?

I have studied for one year as a master student in EEE, NTU. After my graduation, I was trying to continue my future study. Therefore, I applied IGS PHD programme.

2. What motivates or trigger you to pursue a doctorate?

According to my previous study, I think I am suitable to do research work. I like to study new knowledge and do innovative research work. So I decided to pursue a doctorate.

3. Why or how did you decide to apply to IGS or the interdisciplinary route of research?

When I contacted my supervisor for PhD study, he suggested me to apply IGS in NTU. Besides, my research area is also interdisciplinary. I found that it's a right choice to join IGS.

4. What is your thesis about?

My thesis topic is 'application and control of energy storage systems in smart grid'. In the thesis, several control strategies are proposed to control the operation of energy storage systems in smart grid. The proposed methods are validated in practical system with real data through simulation studies.

5. Why did you choose this topic and how does it benefit people or industries globally or internationally?

As the fast development of renewable energy technology, there will be large amount of PV panels and wind turbines penetrated in the power system. Energy storage systems (ESSs) are installed to deal with the uncertainty and intermittency of renewable energy. Therefore, how to apply and control of ESSs are of great importance to increase the penetration rate of renewable energy in future.

6. What kind of interaction did you have in IGS? How did **that help you?**

I enjoyed many very good activities at the first two years of my PhD studies. I also learnt much from the IGS student seminars each week. During the four-year study in IGS, I met many good friends here.

7. What are the challenges you faced during the candidature and how did you overcome it?

Most of my challenges are from my research work. When I encountered difficulty in my research, I need to overcome the difficulties by myself. Most classmates in my group are not familiar with my specific research topic. And the most important thing is to continue and insist on doing the it.

8. What was your proudest moment or fondest memories over the years of candidature? E.g awards, overseas conference, patent, published papers, etc.

Among many good memories during my PhD study, my fondest one is when I published my first transaction paper. This means that my research works are recognized by peers. For me, the biggest dreams during PhD research are to publish papers and graduation on time.

9. What do you think are the attributes for PhD students to successfully go through the 4 years?

Hard working and optimistic are two important attributes for PhD students. If we want to finish PhD studies in four years' time, we should work hard. When we encounter difficulty, we should keep optimistic.

10. Please share 1 key motivational/ key take away message with your juniors?

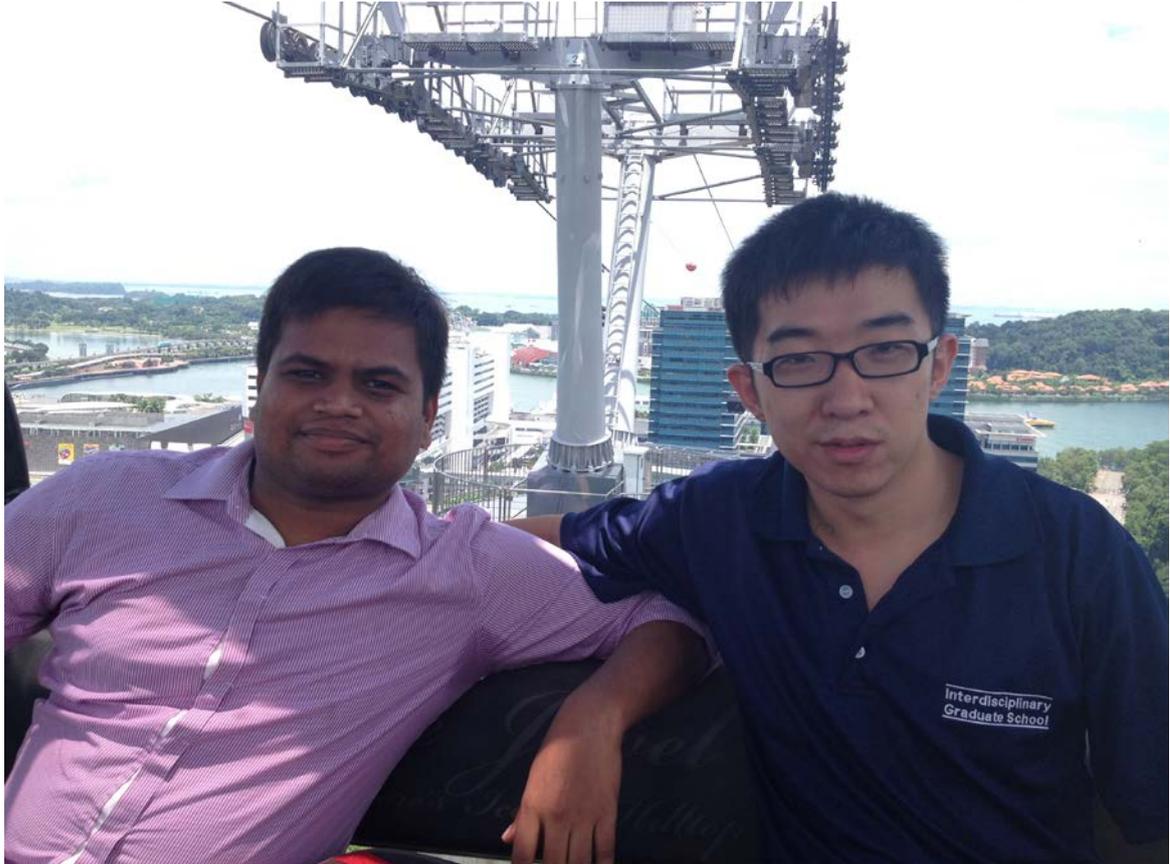
Genius is one per cent inspiration, ninety-nine per cent perspiration.

11. How does it feel like when you received the scholarship offer?

I was really excited when I received the offer from NTU. I was looking forward to my PhD journey.

12. Share with us some memorable photos you've taken with 1 line description of each photo. (e.g. Overseas conference, interactions in IGS, etc)

This photo was taken in the cable car with my friend Ravi in one IGS activity at 31 Aug 2013.



13. What will you miss after graduating?

I will miss NTU for the beautiful campus, the kind staffs as well as good study atmosphere here.

14. What is your next adventure / challenge or any plans for the future?

I want to continue my research work in the future. I would like to do postdoc and then find a suitable position in universities.

15. Is there anything you want to say to your family, supervisors, mentors, friends or anybody?

I would like to express my utmost gratitude to my supervisor Prof So Ping Lam for his encouragement and guidance. Besides, I would like to thanks our staffs in IGS, as you really help me a lot during my studies. Last but not least, I want to present my deepest appreciation to my family members.