

IGS Scholar's Name: NGUYEN NGOC VU

Research Centre: ERI@N

- 1. Your current employment details (Designation, name of company, country and scope of work)**
Research Fellow, Singapore Center for 3D Printing, Nanyang Technological University, Singapore. The research tasks include fabrication, implementation of an automated imaging system for monitoring fabrication processes of 3D printers, and processing of acquired images.
- 2. What motivates or trigger you to pursue a doctorate?**
I pursue a doctorate as I love to discover new things and learn how to solve problems, how to find relevant information and how to meet deadlines.
- 3. Why or how did you decide to apply to IGS or the interdisciplinary route of research?**
I attended a seminar organized by IGS and was encouraged to pursue a PhD.
- 4. What is your thesis about?**
My thesis focuses on investigating the corrosion fatigue behaviors of Aluminum alloys to provide a practical and realistic life prediction for offshore renewable energy systems.
- 5. Why did you choose this topic and how does it benefit people or industries globally or internationally?**
Pitting corrosion in conjunction with fatigue has been a great concern for structural integrity of aluminium alloys that are being extensively used in offshore applications. Therefore, my research aims at investigating corrosion fatigue behaviors of Aluminum alloys to provide a reliable corrosion fatigue control and further extend the use of aluminum alloys in offshore renewable energy systems.
- 6. What kind of interaction did you have in IGS? How did that help you?**
In IGS, I have a great opportunity to know people from different disciplines and areas. At times, they also provided different perspectives on an issue that I am working on.
- 7. What are the challenges you faced during the candidature and how did you overcome it?**
There was a period of uncertainty and loss of motivation. I felt lost as everything that I did keeps failing. I despaired and then I shared my feeling with my colleagues. Later, I found that I am not the only one who suffered such problem so I keep moving forward and get over this crisis.
- 8. What was your proudest moment or fondest memories over the years of candidature? E.g awards, overseas conference, patent, published papers, etc.**
My fondest memory was the time that I passed the qualifying examination. I was in second year and lacking of self-confidence. It took me a lot of time to write the report as I am not so sure whether I can do it or not. Passing the QE was a great achievement to me.
- 9. What do you think are the attributes for PhD students to successfully go through the 4 years?**
I think the most important attribute for a PhD is resilience. No matter how many times you fail, just keep moving forward.

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

Believing in yourself. Fake it till you make it.

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

It was a great moment. Getting the scholarship was a great honor for me and my family. It means I have a potential for the future and I made my parents proud.

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)



Christmas party at IGS



My lovely colleague

13. What will you miss after graduating?

I'll miss the great time that I had with my supervisor. The end of this supervision relationship was a mixed feeling, both happy and sad. Thank you for all the help over the years. Wishing you great success with your new career in UK.

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

I continue my research work as a research fellow in NTU.

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

I wish to thank my many colleagues and friends as well as the lovely administrators in IGS for their continuous support and encouragement that gave me a meaningful PhD life.