



HOANG
Van Quan

Year (thesis): 3rd year

Lab: PPrime, Thermal
Team: COST

Thesis supervisor:
✚ Frédéric PLOURDE

- ✚ I did my **aeronautical engineering studies at Hanoi University of Science and Technology** in the framework of the PFIEV, the French engineering program for excellence students in Vietnam, a program very selective recruitment recognized by the French Commission for Engineering Qualifications.
- ✚ At the end of 2019, I received my engineering degree and a master's degree in transport mechanical engineering six months later.
- ✚ **In November 2020**, I started my **CIFRE Ph.D.** at **IFP Energies Nouvelles**, in collaboration with Institut PPrime of ISAE-ENSMA under the subject: **Multi-scale modeling of heat transfers in liquid-film flows for electric motor cooling**. My work is mainly focused on developing the two-phase flow solver to solve multi-CFD problems of liquid flow created by a jet impinging the end winding of an electric motor.
- ✚ Pursuing a Ph.D. allows me to explore my **curiosity, learn new skills**, expand my network, **hone my communication skills** and **meet many expert people with similar interests**. Living in Paris, one of the most magnificent cities in the world, also gives me an **unforgettable experience**. The most important thing is that doing a Ph.D. is the essential period for me **to work in a high-level research center** after graduating. I felt extremely fortunate when my thesis supervisor Frédéric PLOURDE provided the information and encouraged me to apply for this Ph.D. position.
- ✚ **During the Ph.D. program**, I have the chance to **intensify** my **coding, writing, and communication skills**, which are **crucial** for becoming a good researcher. I also learn how to **organize and present my work** to people from different fields. Besides hard skills for work, I can also gain **a good network for the future**.
- ✚ Doing research at IFP Energies Nouvelles gives me an opportunity to learn the **state-of-the-art new energy technologies**, especially the technologies for cooling electric motors that I am working on. In addition, the company also provides facilities for doing research and sponsors all training trips **to enrich my knowledge** about renewable technologies during my Ph.D. period.



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