

# Vo Chau Duc Phuong

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## EDUCATION

### The Abdus Salam International Center for Theoretical Physics

*Diploma student*

*Condensed matters and statistical physics*

Trieste, Italy

Sep 2024 – Now

### University of Science

*Honours B.Sc. degree in Physics; GPA: 8.88/10.0*

*Specialize in Theoretical Physics*

Ho Chi Minh city, Vietnam

Sep 2020 – July 2024

### Thoai Ngoc Hau highschool for the gifted

*Majots in Physics; GPA: 9.1/10.0*

An Giang, Vietnam

Sep 2017 – July 2020

## SKILLS

**Coding Languages:** FORTRAN, PYTHON, L<sup>A</sup>T<sub>E</sub>X, MATLAB

## RESEARCH EXPERIENCE

### Ho Chi Minh City Institute of Physics

*Internship*

Ho Chi Minh city, Vietnam

Feb 2023 – July 2023

- Worked on the “Calculation of Shift Tensor in Transition Metal Dichalcogenide” project under the supervision of [Dr. Huynh Thanh Duc](#). Results has been reported in the International Conference on Energy, Infrastructure and Environmental Research ([EIER 2024](#)).
- Worked on my bachelor thesis: “Calculation of The Linear-Absorption Spectrum of An Ideal Two-dimensional System of  $MoS_2$ ”. Using Semiconductor Bloch Equations, the Coulomb interaction had been taken into account using the Hatree-Fock approximation. This work confirms the exciton binding energy in  $MoS_2$  in agreement with experiments using a model with a minimum number of energy bands. The findings were presented to the Department of Theoretical Physics at the University of Science in Ho Chi Minh City, Vietnam, receiving a grade of **9.4/10**.

## AWARDS & ACHIEVEMENTS

**Odon-Vallet scholarship:** Scholarship for high school’s and college students, especially in science. (2018)

**Scholarship For Top Student In The Honours Class:** Awarded to the top 1 student in the honours class every semester. (2020-2023)

**2<sup>nd</sup> Prize in the ”National Physics Olympics for College Students”:** Annual Contest for college students in Vietnam, host by Phenikaa University, Hanoi, Vietnam. (2022)

**Golden Medals in ”Traditional 30/04 Olympiad”:** Annual Contest for gifted high school’s students in Vietnam, host by Le Hong Phong high school for the gifted, Ho Chi Minh city, Vietnam. (2018 & 2019)

## ORGANIZATIONS AND VOLUNTEER EXPERIENCE

### Organizations

#### Math and Science Summer Program 2024 (MaSSP)

*Headmentor*

Phenikaa University, Hanoi, Vietnam

July 2024

#### Math and Science Summer Program 2023 (MaSSP)

*Mentor*

University of Education, Hanoi, Vietnam

July 2023

#### Member of Academic field of NES club

*Member*

Ho Chi Minh city, Vietnam

Sep 2020 – July 2024

## **Volunteer**

### **ICTP 60<sup>th</sup> Anniversary**

*Member*

*Trieste, Italy*

*November 2024*

### **Volunteer Spring**

*Member: Teaching elementary student, inspiring them in science*

*Ho Chi Minh city, Vietnam*

*2022 & 2023*

### **Green Summer Campaign**

*Member: teaching and reporting scientific reports*

*University of Science, Ho Chi Minh city, Vietnam*

*2022 & 2023*

### **Member of Academic field of NES club**

*Member*

*Ho Chi Minh city, Vietnam*

*Sep 2020 – July 2024*