



# PHUNG PHUONG UYEN



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Ha Noi, Viet Nam

## SCHOLARSHIPS

**2017–2021**

VinGroup Scholarship

**8/2021–current**

Full Scholarship – Phenikaa University  
Laboratory Scholarship– Phenikaa University

**8/2022–8/2023**

HBM company scholarship

**2/2024**

Phenikaa University Scholarship and  
Shibaura Institute of Technology  
Scholarship

For participation in the Global Project-  
Based Learning (gPBL) 2024 program.

**3/2024**

Talent Generation Scholarship

## EDUCATION

**9/ 2021–current**

Phenikaa University  
GPA 3.8/4

Major: Physics  
(Bachelor of Physics Talent)

## SKILLS

**Programming:** Experienced in Python, C

**Machine Learning:** Experienced in training models and predicting outcomes from structured data

**Simulation software:** Skilled in using CST Studio Suite, LightTools

**Materials Characterization:** XRD, SEM, TEM, Raman, P, PLE, UV-Vis

**Other Software:** Experienced with OriginLab, CorelDRAW, MatLAB, etc.

**English proficiency:** TOEIC: 885, IELTS: 6.5

## ACHIEVEMENTS



**2020: Second Prize** for the Provincial round in Vietnam Physics Olympiad for High school students



**2022: Third prize** in the Vietnam Mathematical Olympiad for University Students

**Second prize** in the Mathematical Olympiad for Phenikaa University Students



**2022: Consolation prize** for the Phenikaa English speaking Contest



**2022: First prize** in the Vietnam Physics Olympiad for University Students (two categories)

**Second prize** in the Physics Olympiad for Phenikaa University Students



**2022: Award** for Outstanding Student of the Year, Phenikaa University



**2023: First prize** in the Vietnam Physics Olympiad for University Students

**First prize** in the Physics Olympiad for Phenikaa University Students



**2024: Certificate of Merit** for Outstanding Contribution to Youth Union Activities and Student Movements



**2025: Certificate of Merit** for Outstanding Youth Union Officer 2025

# RESEARCH ACTIVITIES

- ✦ **2021-now: member of Optoelectronics and Photonics Laboratory**
- ✦ **2022: Project “Dominant Color Extraction for Smart Decorative Lamp”**  
*Developed a Python program to extract dominant colors from images, which were then used to design color schemes for a picture-like decorative lamp.*
- ✦ **2023: Project “AI-Assisted Study of a Broadband Perfect Absorber in the Terahertz Region”**  
*Used CST Studio Suite to simulate a broadband absorber.  
Developed a program to predict the absorption spectrum using simulated data with various materials.*
- ✦ **2024: First Prize – Faculty-level Student Scientific Research Competition**  
**Consolation Prize – University-level Student Scientific Research Competition**  
*Topic: Simulate 3 layers- remote phosphor structure using LightTools software to optimize LED optical properties, improving light quality.*
- ✦ **2024: Poster presented at the International Student Research and Innovation Connecting Day 2024**  
*Topic: An excellent cyan-emitting Bi 3+ doped Y2O3 phosphor for NUV-pumped white LED applications.*
- ✦ **2025: Second Prize- Faculty- level Student Scientific Research Competition**  
*Topic: Design and Optimization of a natural lighting system for Vertical farms using LightTools software*
- ✦ **Publication: Design of a highly uniform natural lighting system in vertical farming based on low-concentration solar energy convergence technology (to be published)**

# EXTRACURRICULAR ACTIVITIES

- ✦ **2021: Online Teaching Assistant at Knowledge Bridge Education**  
*Founded by Dr. Phan Hong Duc (RMIT lecturer)  
Supported teenagers in accessing educational resources during and after the COVID-19 pandemic through online classes.*
- ✦ **2022-2024: Head of Expertise Department, Innovative Entrepreneur Club (Phenikaa University)**
- ✦ **2022: Participated in the Phenikaa Startup Idea Competition 2022**  
*A competition encouraging university students to propose innovative startup ideas that address real-world problems and foster entrepreneurial thinking.*
- ✦ **2023: Organizing Team – Phenikaa Startup Idea Competition 2023**
- ✦ **2024: Volunteer– Phenikaa Startup Idea Competition 2024**
- ✦ **2024: Team leader– Global Project-based Learning 2024**  
*Shibaura Institute of Technology, Japan  
For this program, I was awarded two separate scholarships: one granted by Phenikaa University and the other by Shibaura Institute of Technology.  
Students from Japan and overseas partner universities working as teams will discuss and solve problems presented by professors, Japanese corporations, and organizations.  
At gPBL 2024, our topic is using IoT to solve social issues related to agriculture.*