

DANG THUY VY

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EDUCATION & TEST SCORES

Hanoi-Amsterdam High School for the Gifted - Honor Biology Class

2022 - 2025

GPA: Grade 11: 9.6/10 | Grade 10: 9.7/10

Valedictorian, Hanoi Star Secondary School, Hanoi, Viet Nam

2018 - 2022

GPA: Grade 9: 9.8/10

SAT: 1540 | IELTS: 8.0 | AP: Biology (5), Chemistry (5), Environmental Science (4)

HONORS & AWARDS

Second Prize, National Biology Olympiad
Finalist, United World Nations UWC
Second Place, Hanoi Municipal Biology Olympiad
First Place, Hanoi Municipal Biology Olympiad
Second Place, Tai Nang Khoi Chuyen (Talent Showcase)
Third Place, Ngay Hoi Nhay Mua (Dancing Festival)
First Prize, Uni-VERSE High School Dance Competition
Rank 2/20, Municipal Selective Round for Vietnam Biology Olympiad

2023
2023
2023
2022
2023
2022
2024
2023

ENVIRONMENTAL INITIATIVES, RESEARCH & INTERNSHIP

Co-Author & Bacterial Researcher - Vietnam National Academy of Agriculture

10/2023 - 4/2024

Topic: [Isolation and Characterizations of Potential Plant Growth Properties of Some Bacterial Endophytes Isolated from Roots of Ocimum sanctum L.](#) | Instructed by **Assoc. Prof. Dr. Tran Dang Khanh** | Published in African Journal of Biological Sciences (09/2024)

- Isolated 18 native bacterial strains from Ocimum sanctum L. with strong phosphate-degrading potential; optimized growth and ensured purity using centrifugation, spectroscopy, and gram staining in CAS medium.
- Identified four key bacterial strains (RH2.1, RH2.2, RH5.1, RH5.2) with strong phosphate-solubilizing and IAA synthesis capabilities; pioneered local biofertilizer innovation for sustainable crop production and soil regeneration.

Co-Author & Soil Microplastic Researcher - Institute for Agricultural Environment

5/2023 - 8/2023

Topic: [Degradation Plastics Waste in Soil Environments](#)

- Collaborated with **Assoc. Prof. Dr. Mai Van Trinh** to study the degradation rates and microplastic formation of four plastic types (PP, PE, HDPE, bioplastics) in natural soil samples from the Red River Delta, a multi-year experiment to track plastic breakdown in Vietnamese alluvial soils.
- Collected soil samples; isolated microplastics using centrifugation and filtration; analyzed particle density with Pax-it software and optical microscopy.

First Author & Independent Researcher - Vietnam Academy of Science and Technology

2/2024 - 7/2024

Topic: [Analysis of the Characteristics of Cellulose Films Generated by Black Organic Tea Kombucha Utilizing Various Carbon Sources](#)

- Cultivated two SCOBY Kombucha strains in four sugar conditions to study cellulose film formation for eco-friendly biomaterial development by evaluating biochemical activity and film composition across eight samples.
- Conducted analysis of pH, total soluble solids, acidity, sugars, and proteins by utilizing pH meters, refractometers, titration, Bradford assays, and phenol-sulfuric acid assays.
- Analyzed and compared findings with ISI/Scopus studies; summarized insights for potential biomaterial applications.

NGO Live & Learn - Environmental Intern

1/2024 - Present

An Australia-founded and action-based environmental education, engaging 69 schools in Vietnam and operating across 10 regional offices in Southeast Asia with 400+ staff and volunteers.

- Was the youngest intern to spearhead the "Green School" project in collaboration with the Ministry of Natural Resources and Environment and USAID, by developing models of compost pits & recycling bin for 30+ schools in Central Vietnam.
- Moderated debates on climate change and waste management; led key workshops with city officials to strategize resource allocation.
- Designed educational programs for 60+ orphaned children; organized "Green Year" initiative with 100+ participants promoting sustainability practices.

Buyo (Breaking the Plastic Wave) Plastic - Quality Auditor Intern

12/2023 - 8/2024

- Audited quality and safety of biodegradable products derived from spent grains and sugarcane waste, ensuring compliance with environmental standards at a leading eco-friendly Vietnamese bioplastic solutions startup.
- Served as secretary for two seminars on environmental startups and eco-material businesses in Vietnam, featuring UNEP, UNDP, NPAP, and local businesses (An Phat Holdings, GreenHub).

HUMAN-CENTRIC INITIATIVES, ART & CULTURE

Contact Improvisation - Program Director

11/2023 - Present

- Produced a 5-part webinar series on Contact Improvisation for 120+ participants per session in body movement and nature.
- Facilitated bi-monthly 2-hour offline sessions; designed activities exploring physical touch in darkness and therapeutic touch, with 10 attendees per event.

eARTH Exhibition, Mentor & Speaker & Biology Specialist

6/2024 - 8/2024

- Led an environmental exhibition in Hanoi, Vietnam, on ecological issues for 280+ high school students.
- Mentored 32 contestants to develop projects featuring recycled materials, including musical instruments and art.
- Curated educational content and hosted a booth on Soil & Nature to educate 50+ participants on the effects of plastic waste and microplastics on soil quality.

Humans of Hanoi - Amsterdam - Vice-President

8/2023 - 10/2024

- Supervised 60+ members to spearhead major school-wide events, fostering student engagement with the school's history and traditions through storytelling videos and creative expression.
- Curated *Humanoid*, a two-year photo exhibition to celebrate the Hanoi cultural beauty, featuring 100+ photographs from high-school photographers and drawing 1,000+ attendees.

LEADERSHIP

DEco Project - Co-founder and President

6/2022 - Present

- Managed 60+ members in sustainability initiatives in energy-saving and sustainable farming practices plus reforestation, raising \$3,000+ to benefit 300+ students and 200+ farmers.
- Installed 5 electricity-generating bicycles in rural schools to increase awareness of energy conservation by integrating them into a new PE curriculum and launching a weekly 'Bicycle Diary' project for practical learning.
- Organized webinars for 130 H'mong students on soil conservation and plastic recycling; secured \$1,200 for organic fertilizers and equipment, benefiting 45 hectares in Mai Chau; connected the cooperative with 3 agencies for discounted fertilizers.

High School Help Kit - Leader of Biology Academic Department

10/2022 - 7/2023

- Led 10 admins to manage a Biology-focused group of 5,000+ members; designed academic content and psychological guidance for middle school students, with 63,000+ followers.
- Led webinars to support 80+ students, successfully onboarding 1,000 new members and helping 100+ juniors prepare for the Biology entrance exam.

Hanoi Star Student Council - President

2020 - 2021

- Let 35+ members to establish a 500+ member-alumni network; initiated monthly meetings with the school Board of Directors to discuss student affairs.
- Guided 250+ ninth graders with support from 50 alumni through presentations and 1-on-1 mentoring sessions to prepare for high school entrance exams.

THEATRE/STAGES EXPERIENCES

TEDx - Honor Speaker

6/2024 - 8/2024

- Chosen from 125 applicants, delivered a 15-min thought-provoking talk on "Prepared Curiosity" for 200 audiences to illustrate how nurturing curiosity can ignite lifelong motivation, weaving personal narratives about becoming an environmental scientist

Tai Nang Khoi Chuyen (Talent Showcase) - Stage Director

8-10/2023

- Authored and directed a 10-minute comedic monologue challenging traditional career stereotypes and inspiring the pursuit of individual passions, performed in front of a live audience of 500+ attendees.
- Led a production team of 30+ performers, stage designers, and technical staff, coordinating rehearsals and managing logistics, presented a highly-praised show with 1000+ live-stream viewers.

G'LAMS Musical Show 2023: Seeking Peace in the Waves - Dancer

3 - 7/2023

- Performed as a dancer and actor in the largest high school musical, depicting the 1980s Vietnamese life, captivating 1,000+ attendees.

Ngay Hoi Nhay Mua (Dancing Festival) - Stage Director

10-11/2022

- Performed in a fictional play addressing the apocalyptic consequences of climate change and the quest for Earth's roots as a symbol of hope and resilience.

INTERESTS

Dancing (Contact Improvisation): Connects bodies through shared weight and movement, attuned to the flow of energy in the environment.

Health Advocate: Co-founded a startup producing low-cost Kombucha from organic black tea and passion fruit, targeting individuals with digestive issues.

Photography: Captures the intersection of urban landscapes and nature, evoking nostalgia through film photography

Pilates: Practices 3 times/week to balance physical health.

Trekking: Promotes no-waste trekking routes, combining meditation and movements to engage with nature while cleaning up trails.