

# Visarut Huayshelake



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**Ph.D. Student in applied mathematics with over four years of hands-on experience in numerical simulation of Computational Fluid Dynamics.**

## Education

AUG 2025 – PRESENT

**Ph.D. Student in Applied Mathematics and Computational Science**

Chulalongkorn University, Bangkok, Thailand

AUG 2022 – SEP 2025

**M.Sc. in Applied Mathematics and Computational Science**

Chulalongkorn University, Bangkok, Thailand

Expected Graduation Date: September 2025

Thesis: Two-Dimensional Simulation of Contaminant Transport and Treatments in Groundwater System

OCT 2022 – AUG 2024

**M.Sc. in Computational Mathematics (Double Degree Program With CU)**

Kanazawa University, Ishikawa, Japan

Thesis: Lagrange-Galerkin Scheme for Groundwater Contaminant Models

JUL 2018 – APR 2022

**B.Sc. in Computational Science (First Class Honors)**

Walailak University, Nakhon Si Thammarat, Thailand

Project: Two-Dimensional Numerical Simulations of Pollution Diffusion from a Waste Dump

## Teaching Experience

First Semester of 2025

**2301115: Calculus for Business I (TA)**

- Graded weekly homework and provided feedback students.
- Led tutoring sessions to prepare students for midterm and final examinations.

Summer of 2025

**Basics in Calculus (TA)**

- Advised incoming students on problem-solving strategies for university calculus.
- Provided feedback on student exercises to reinforce foundational concepts.

Second Semester of 2024

### **2301108: Calculus II (TA)**

- Guided students to solve complex calculus problems.
- Led tutoring sessions to prepare students for midterm and final examinations.
- Graded weekly quizzes and provided feedback to support student learning and improvement.

## **Publication**

Huayshelake, V., & Mekchay, K. (2025). Numerical Simulation of Contaminant in Transient Groundwater System. AMM 2025 Conference Proceedings, Thailand.

## **Conferences**

MAY 2025

**Speaker on the topic of “Numerical Simulation of Contaminant in Transient Groundwater System”**

at the 29th Annual Meeting in Mathematics

Organized by Department of Mathematics Srinakharinwirot University

DEC 2022

**Speaker on the topic of “Sum of Products of Two Consecutive Primes”**

at the 48th International Congress on Science, Technology and Technology-based Innovation

Organized by School of Science Walailak University

## **Language Skills**

**Thai:** Native

**English:** Professional Working Proficiency (TOEFL ITP: 550)

**Japanese:** Elementary Proficiency (JLPT: N4)

## **Programming Skills**

**Proficient:** C++, Python, MATLAB, Mathematica

**Familiar with:** C, R, SQL, HTML, Fortran